PB80-178163

Federal Laboratories and Research Facilities with Noise Capabilities

(U.S.) Environmental Protection Agency
Washington, DC

Jul 79

U.S. Department of Commerce
National Technical Information Service
NTIS.

United States
Environmental Protection
Agency

Office of
Noise Abatement
And Control
Washington, D.C. 20460

EPA-79-312
July 1979

Noise

PB80-178163

EPA

Federal Laboratories and Research Facilities with Noise Capabilities

A Directory

REPRODUCED BY
NATIONAL TECHNICAL
INFORMATION SERVICE
U. S. DEPARTMENT OF COMMERCE
SPRINGFIELD, VA. 22161

TECHNICAL REPORT DATA
(Please read Instructions on the reverse before completing)

1. REPORT NO.	2.	3. RECIPIENT'S ACCESSION NO.
EPA 550/9-79-312		PB 80 178163

4. TITLE AND SUBTITLE	5. REPORT DATE
Directory of Federal Laboratories and Research Facilities with Noise Capabilities	July 1979
	6. PERFORMING ORGANIZATION CODE
7. AUTHOR(S)	8. PERFORMING ORGANIZATION REPORT NO.
9. PERFORMING ORGANIZATION NAME AND ADDRESS U. S. Environmental Protection Agency Office of Noise Abatement and Control Washington, D.C. 20460	10. PROGRAM ELEMENT NO.
	11. CONTRACT/GRANT NO.
12. SPONSORING AGENCY NAME AND ADDRESS Same as Box # 9	13. TYPE OF REPORT AND PERIOD COVERED
	14. SPONSORING AGENCY CODE ANR-471

15. SUPPLEMENTARY NOTES

16. ABSTRACT

This directory provides government officials and others a basic reference guide to various Federal laboratories and research facilities having noise research and/or noise testing capabilities. The Environmental Protection Agency is publishing it pursuant to its responsibilities under the Noise Control Act of 1972 (PL 92-574) and the Quiet Communities Act of 1978 (PL 95-609).

17. KEY WORDS AND DOCUMENT ANALYSIS

a. DESCRIPTORS	b. IDENTIFIERS/OPEN ENDED TERMS	c. COSATI Field/Group
Noise research, Federal laboratory acoustical capabilities		

18. DISTRIBUTION STATEMENT	19. SECURITY CLASS *(This Report)*	21. NO. OF PAGES
	20. SECURITY CLASS *(This page)*	22. PRICE

EPA Form 2220-1 (9-73)

EPA 550/9-79-312

FEDERAL LABORATORIES AND RESEARCH FACILITIES WITH NOISE CAPABILITIES

July 1979

U.S. Environmental Protection Agency
Office of Noise Abatement and Control
Washington, D.C. 20460

ERRATA

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INTRODUCTION

PURPOSE AND SCOPE

This document inventories various Federal laboratories and research facilities having noise research or noise testing capabilities. It is intended to furnish government officials and others basic information constituting a starting point in making further inquiries. It is not a comprehensive compendium affording in-depth perspectives of activity.

BACKGROUND

The directory is based on a telephone survey (Appendix B) of various Federal laboratories and/or research facilities having noise capabilities. It represents a joint effort between the EPA and the U.S. Navy. The actual questionnaire was developed and data was collected by the Naval Aircraft Environmental Support Office, San Diego, California.

The Environmental Protection Agency is publishing it pursuant to its responsibilities under the Noise Control Act of 1972 (PL 92-574) and the Quiet Communities Act of 1978 (PL 95-609).

HOW TO USE THIS DIRECTORY

In order to accommodate the needs of various users, the directory contains:

- A basic inventory . . . . . Introduction

  This identifies the laboratories considered in the directory. It gives the address, and chief noise mission of each laboratory as well as the name and telephone number of whom to contact at the laboratory.

- An organizational index . . . . . Section 1

  This index identifies the area and level of noise efforts at each of the laboratories inventoried.

- A noise activities index . . . . . Section 2

  Identifies noise activity areas, categories of activities, and which facilities are performing them.

- A noise instrumentation and special facility index . . . Section 3

  Identifies equipment and research facilities associated with each laboratory.

- A geographical index . . . . . Section 4

  This index contains a map of the standard Federal regions and locates on the map each Federal laboratory with reported noise capabilities.

COMMENTS FROM READERS

It is intended that this directory will be updated periodically. Readers wishing to comment may use the form in Appendix C. All comments are welcome and should be sent to:

Directory of Federal Laboratories With Noise Capabilities
Office of Noise Abatement and Control
Environmental Protection Agency
Washington, D.C. 20460
(Telephone: (703) 557-8292)

Inventory of Federal Laboratories and Research Facilities

DEPARTMENT OF AGRICULTURE

Forest Service
Equipment Development Center
444 E. Bonita
San Dimas, CA 91773

Contact: Robin Harrison
FTS 793-8237
(714) 599-1267

Noise Mission: Technical support to Forest Service noise reduction and hearing conservation program.

DEPARTMENT OF COMMERCE

National Bureau of Standards
Washington, D.C. 20234

Contact: S. L. Yann
(301) 921-3646

Noise Mission: Acoustical Engineering, environmental noise, building acoustics and community noise

National Oceanic and Atmospheric Administration
Wave Propagation Laboratory
3100 Maine Street
Boulder, CO 80302

Contact: T. Brown
FTS 323-6436
(303) 449-1000
ext. 6436

Noise Mission: Research on Atmospheric and ocean properties using sound.

Inventory of Federal Laboratories

DEPARTMENT OF DEFENSE

U.S. Air Force

Air Force Aerospace Medical Research
Laboratory
Wright-Patterson Air Force Base
Fairborn, OH 45433

- Bioacoustics Branch — Contact: C. Nixon, A/V 785-3607, (513) 255-3607

  Noise Mission: Conducts noise effects research in support of noise.

- Biodynamic Branch — Contact: John Cole, A/V 785-3675, (513) 255-3675

  Noise Mission: Develop procedures and technology to predict crew/community noise.

Air Force Flight Dynamics Laboratory
Wright-Patterson Air Force Base
Fairborn, OH 45433

Contact: D. L. Smith, A/V 785-5662, (513) 255-4279

Noise Mission: Acoustics and sonic fatigue.

DEPARTMENT OF DEFENSE - Continued

Air Force School of Aerospace Medicine
Brooks Air Force Base
TX 78235

Contact: D. Gasaway
A/V 240-2178

Noise Mission: Review and analyze audiograms.

U.S. Army

Army Aero Medical Research Laboratory
P.O. Box 577, SGRD-UAB
Bioacoustics Division
Fort Rucker, AL 36362

Contact: R. Camp
A/V 558-4408
(205) 255-4408

Noise Mission: Air crew noise peculiar to Army.

Army Audiology and Speech Center
Walter Reed Army Medical Center
Building 156, Forest Glen Section
Washington, D.C. 20012

Contact: J. Hans
A/V 241-5131
(202) 427-5131

Noise Mission: Clinical audiology, hearing conservation, auditory research.

Army Ballistics Research Laboratory
Aberdeen Proving Ground
Aberdeen, MD 21005

Contact: A. LaGrange
A/V 283-2030
(301) 278-2030

Noise Mission: Acoustic pattern recognition.

Army Construction Engineering Research Laboratory
Champaign, IL 61820

Contact: P. Schomer
A/V 862-1101
(217) 352-6511

Noise Mission: Environmental noise measurement and analysis.

Army Electronics Command
Avionics Laboratory, Building 2700
Fort Monmouth, NJ 07703

Contact: M. Mayer
A/V 995-4271
(201) 544-4271

Noise Mission: Reduce aviator hearing loss.

Army Environmental Hygiene Agency
Bioacoustics Division
USAEHA, Building E-2100
Aberdeen Proving Ground
Aberdeen, MD 21005

Contact: D. Ohlin
A/V 584-3797
(301) 671-3797

Noise Mission: Hearing conservation, environmental noise.

Army Human Engineering Laboratory
Aberdeen Proving Grounds
Aberdeen, MD 21005

Contact: G. Garinther
A/V 283-3266
(301) 278-3265

Noise Mission: Effects of noise on man.

DEPARTMENT OF DEFENSE - Continued

Army Materials Systems Analysis
Aberdeen Proving Grounds
Aberdeen, MD 21005

Contact: B. Cummings
A/V 283-2432
(301) 278-2432

Noise Mission: Prediction of blast noise.

Army Mobility Equipment Research and
Development Center
Fort Belvoir, VA 22060

Contact: J. Hoeschen
A/V 354-1836
(703) 664-1836

Noise Mission: Noise consideration during equipment design.

Army Standards Laboratory
Army Missile Command
Redstone Arsenal, ALA 35809

Contact: R. Smock
A/V 746-2891
(205) 876-2891

Noise Mission: Maintain Army calibration standard.

Army Tank-Automotive Command
Warren, MI 48090

Contact: D. Reese
A/V 273-1653
(313) 573-1653

Noise Mission: Measure and analyze combat vehicle noise.

DEPARTMENT OF DEFENSE - Continued

U.S. Navy

Naval Aerospace Medical Research Laboratory
Acoustical Sciences Division
Pensacola, FL 32508

Contact: R. Robertson
A/V 922-4457
FTS 948-4451
(904) 452-4457

Noise Mission: Evaluate hearing conservation/performance.

Naval Aircraft Environmental Support Office
NAVAIRE WORKFAC North Island
San Diego, CA 92135

Contact: Ray Glass
A/V 951-5032
(714) 437-5032

Noise Mission: Evaluation of noise at Navy/Marine Corps activities.

Naval Air Development Center
Warminster, PA 18974

- o Aeroelectronic Technology Department

  Contact: E. Cotilla
  A/V 297-3127
  (215) 441-3127

  Noise Mission: Underwater acoustic detection and processing.

- o Air Vehicle Technology Department

  Contact: W. C. Hallow
  A/V 297-2475
  (215) 441-2475/2836

  Noise Mission: Environmental Noise.

- o Crew Systems Department

  Contact: D. DiSimone
  A/V 297-2188
  (215) 441-2187

  Noise Mission: Hearing protection/environmental noise.

DEPARTMENT OF DEFENSE - Continued

Naval Air Engineering Center
Naval Air Station
Lakehurst, NJ 08733

Contact: D. Croce
A/V 624-2706
(201) 323-7668

Noise Mission: Ground support equipment, propulsion noise.

Naval Air Propulsion Test Center
Lakehurst, NJ 08733

Contact: R. Obernodorfer
A/V 234-1770
(609) 882-1414

Noise Mission: Navy engine test facility.

Naval Air Test Center
Patuxent River, MD 20670

Contact: C. Abell
A/V 356-4673
(301) 863-4673

Noise Mission: Evaluation of aircraft system noise.

David Taylor Naval Ship Research and
Development Center
Annapolis, MD 21404

Contact: L. J. Argiro
A/V 281-2649
(301) 267-2840

Noise Mission: Reduce machinery noise on submarines, surface ships and combatant craft.

David Taylor Naval Ship Research and
Development Center
Bethesda, MD 20084

Contact: R. Biancardi
A/V 281-1317
(202) 227-1317

Noise Mission: Measure and analyze ship noise.

DEPARTMENT OF DEFENSE - Continued

Navy Environmental Health Center
Cincinnati, OH 45220

Contact: A. Johnson
A/V 989-3863
(513) 684-3863

Noise Mission: Hearing conservation.

Naval Health Research Center
San Diego, CA 92132

Contact: R. Townshend
(714) 225-6434

Noise Mission: Effects of noise on sleep and performance.

Naval Ocean Systems Center
San Diego, CA 92132

- Acoustics, Behavior, and Communications Group

  Contact: R. S. Gales
  A/V 933-7255
  (714) 225-7255

  Noise Mission: Research and development, noise control, and noise effects.

- Speech Systems and Interference Branch

  Contact: E. Schiller
  A/V 933-7372
  (714) 225-7372

  Noise Mission: Developmental test and evaluation.

Naval Pacific Missile Test Center
Point Mugu, CA 93942

Contact: D. Robertson
A/V 351-8871/8304
(805) 982-8871/8304

Noise Mission: Developmental test and evaluation.

DEPARTMENT OF DEFENSE - Continued

Navy Research and Development Center
San Diego, CA 92132

Contact: Dr. Fred Muckler
A/V 933-0500
(714) 225-6617

Noise Mission: Measure critical task performance in noisy shipboard environment.

Naval Research Laboratory
Acoustics Division
Washington, D.C. 20375

Contact: Dr. Munson
A/V 297-3392
(202) 767-3392

Noise Mission: Underwater acoustics/undersea surveillance.

Naval Research Laboratory
Underwater Sound Reference Division
Orlando, FL 32806

Contact: J. Blue
FTS 820-6248
(305) 859-5120

Noise Mission: Underwater transducer design and calibration.

Naval Ship Engineering Center
James Polk Building, National Center
2521 Jefferson Davis Highway
Arlington, VA 20362

Contact: K. G. Hartman
A/V 222-0323
(202) 692-0323

Noise Mission: Ship noise and vibration control.

DEPARTMENT OF DEFENSE - Continued

Naval Submarine Medical Research Laboratory
Auditory Division
Box 900
Naval Submarine Base, New London
Groton, CT 06340

Contact: J. Harris
A/V 241-3201
(203) 449-3201

Noise Mission: Perform hearing research in support of the submarine force/diving community.

Naval Surface Weapons Center
Silver Spring, MD 20910

Contact: D. Bradley
A/V 290-2470
(202) 394-2470

Noise Mission: Underwater acoustics research and development.

Naval Surface Weapons Center
Dahlgren Laboratory
Dahlgren, VA 22448

Contact: L. L. Pater
A/V 249-7342
(703) 663-7342

Noise Mission: Surface weapons development.

Naval Underwater Systems Center
New London, CT 06320

Contact: G. Connolly
A/V 636-2908
(203) 442-0771

Noise Mission: Underwater sonar.

DEPARTMENT OF DEFENSE - Continued

Navy Weapons Center
China Lake, CA 93551

Contact: T. Dodson
A/V 245-3630
(714) 939-3630

Noise Mission: Weapons acoustics.

Naval Weapons Support Center
Crane, IN 47522

- Aircraft Equipment Division — Contact: E. Melton, A/V 482-1299, (812) 854-1299

  Noise Mission: Aircraft equipment control.

- ASW and Aircraft Equipment Division — Contact: R. Behme, A/V 482-1422

  Noise Mission: Hydroacoustic measurement facility.

- Fleet Logistics Support Department — Contact: L. Will, (812) 854-1810

  Noise Mission: Sound testing of motor generator sets.

- Medical Department — Contact: J. Fitch, A/V 482-1847, (812) 854-1847

  Noise Mission: Occupational health relating to noise.

Inventory of Federal Laboratories

DEPARTMENT OF ENERGY

Lawrence Berkeley Laboratory
#1 Cyclotron Road
Berkeley, CA

Contact: Jensen Young
(415) 486-5251

Noise Mission: Investigation of man and materials in energy research.

Lawrence Livermore Laboratory
P.O. Box 808
Livermore, CA 94550

Contact: Walt Eneidi
FTS 532-5145
(415) 422-5154

Noise Mission: Noise surveys for hearing loss problems.

Oak Ridge National Laboratory
P.O. Box X
Oak Ridge, TN 37830

Contact: W. E. Porter
FTS 850-1634
(615) 483-8611
ext. 3-1634

Noise Mission: Reduce employee exposure to workplace noise.

ENVIRONMENTAL PROTECTION AGENCY

Noise Enforcement Facility
Sandusky, OH 44870

Contact: Robert P. Kozar
FTS 627-1628
(419) 627-8945

Noise Mission: Acoustic testing of products.

DEPARTMENT OF HEALTH, EDUCATION AND WELFARE

Public Health Service
Center for Disease Control
National Institute for Occupational
Safety and Health (NIOSH)
4676 Columbia Parkway
Cincinnati, OH 45226

Contact: W. N. McKinnery, Jr.
FTS 684-4442
(513) 684-4442

Noise Mission: Reduce occupational noise.

Public Health Service
Center for Disease Control
National Institute for Occupational
Safety and Health (NIOSH)
Appalachian Laboratory for Occupational
Safety and Health (ALOSH)
Testing and Certification, Safety Division
944 Chestnut Ridge Road
Morgantown, W. VA 26505

Contact: N. Blaskovitch, Jr.
FTS 923-7331
(304) 599-7331

Noise Mission: Evaluate noise instrumentation and hearing protection for certification.

Public Health Service
National Institutes of Health
Bethesda, MD 20852

Contact: E. Elkins
(301) 496-5061

Noise Mission: Medical aspects of noise.

DEPARTMENT OF HEALTH, EDUCATION AND WELFARE - Continued

Public Health Service
National Institutes of Health
National Institute of Environmental Health Sciences
Laboratory of Environmental Physics
P.O. Box 12233
Research Triangle Park, NC 27709

Contact: R. Cook
FTS 629-3247
(919) 541-3247

Noise Mission: Research on effects of noise on the hearing.

DEPARTMENT OF THE INTERIOR

Bureau of Mines
Noise Research Laboratory
4800 Forbes Avenue
Pittsburgh, PA 15213

Contact: A. Burkes
FTS 726-2762
(412) 892-2400

Noise Mission: Noise control of mining equipment.

Bureau of Mines
Pittsburgh Mining and Safety Research Center
Pittsburgh, PA 15213

Contact: K. Sachs
FTS 726-2641
(412) 892-2400 ext. 641

Noise Mission: Industrial hazards and communication.

Bureau of Mines
Rolla Metallurgy Research Center
P.O. Box 280
Rolla, MO 65401

Contact: A. Visnapoo
FTS 276-9210
(314) 364-3169

Noise Mission: Noise and vibration abatement.

Bureau of Mines
Mine Safety and Health Administration
Noise Branch
4800 Forbes Avenue
Pittsburgh, PA 15213

Contact: D. A. Giardino
FTS 721-8620
(412) 621-4500 ext. 620

Noise Mission: Technical support to inspection force with regard to noise control techniques.

DEPARTMENT OF THE INTERIOR - Continued

Bureau of Mines
Mining Enforcement and Safety
Technical Support - Coal Equipment Group
Pittsburgh, PA

Contact: D. A. Giardino
FTS 721-8620
(412) 621-4500
ext. 622

Noise Mission: Noise compliance and analysis.

Bureau of Mines
Mining Enforcement and Safety
Technical Support - Non-Coal Equipment Group
Denver, CO 80225

Contact: T. Muldune
(303) 234-4824

Noise Mission: Noise compliance.

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

NASA Ames Research Center
Moffett Field, CA 94035

Contact: W. Altye
(415) 965-6675

Noise Mission: Aerodynamic and non-audiotry effects of noise investigation.

NASA Goddard Space Flight Center
Greenbelt, MD 20771

Contact: L. Cook
(301) 982-6305

Noise Mission: Vibration and acoustic testing of space systems.

NASA Jet Propulsion Laboratory
California Institute of Technology
Pasadena, CA 91125

Contact: P. Massier
FTS 792-3549
(213) 354-3549

Noise Mission: Aircraft noise research and noise reduction.

NASA Johnson Space Center
Houston, TX 77058

Contact: A. Gist
FTS 525-3007
(713) 483-3007

Noise Mission: Structural and communications tests.

NASA Langley Research Center
Langley, VA 23665

Contact: H. Hubbard
FTS 928-1110
(804) 827-3577

Noise Mission: Lead center for acoustics control of aircraft noise; pscho-acoustics research.

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION - Continued

NASA Lewis Research Center
21000 Brookpark Road
Cleveland, OH 44135

Contact: R. W. Schroeder
(216) 433-4000
ext. 6654

Noise Mission: Measurement of aircraft noise.

NASA Marshall Space Flight Center
Huntsville, AL 35812

Contact: N. Allan
(205) 453-1320

Noise Mission: Acoustic testing.

NASA Wallops Flight Center
Wallops Island, VA 23337

Contact: Director of
Operations
FTS 928-5711
(804) 824-3411

Noise Mission: Measurement of aircraft noise.

DEPARTMENT OF TRANSPORTATION

Federal Aviation Administration
Aeronautical Center Research Laboratory
Oklahoma City, OK 73125

Contact: J. Tobias
FTS 732-4846
(405) 686-4846

Noise Mission: Medical certification of pilots/industrial hygiene.

Federal Aviation Administration
National Aviation Facilities Experimental Center
Atlantic City, NJ 08405

Contact: R. Faith
FTS 346-3641
(609) 641-8200

Noise Mission: Research and development testing for FAA.

Federal Railroad Administration
Transportation Test Center
Pueblo, CO 81001

Contact: Glenn A. Reiff
FTS 326-9502
(303) 545-5660

Noise Mission: Measure worker exposure to noise.

Transportation Systems Center
55 Broadway
Cambridge, MA

Contact: R. Giangrande
FTS 837-2486
(617) 494-2486

Noise Mission: Transportation systems research, related to noise reduction.

SECTION 1
ORGANIZATIONAL INDEX

This section is designed to aid the reader in determining the area and level of noise efforts at each of the laboratories inventoried. For each laboratory and research facility, it is indicated whether, in a given area (e.g. air transportation) the facility reported having either 1) a program or 2) individual projects only or/both a probram and individual projects (not necessarily related to the program).

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AGENCY/LABORATORY \ AREAS OF EFFORT	ENVIRONMENTAL NOISE					OCCUPATIONAL NOISE		HEALTH EFFECTS		MISCELLANEOUS	
	AIR TRANSPORTATION	SURFACE TRANSPORTATION	MACHINERY	CONSTRUCTION	HEARING CONSERVATION AND ENGINEERING CONTROL SERVICES	HEARING LOSS	NON-AUDITORY	UNDERWATER	ANIMAL RESPONSE	SPECIAL INSTRUMENTATION	ACOUSTIC DATA PROCESSING
Department of Agriculture											
Forest Service Equipment Development Center, CA		B	I	B	B	I	I		I		
Department of Commerce											
National Bureau of Standards, DC	P	P	B	P	B	B	B			B	B
National Oceanic and Atmospheric Administration, Wave Propagation Laboratory, CO										B	

P = reported continuing program
I = reported individual projects
B = reported both programs and projects

Organizational Index

AGENCY/ LABORATORY \ AREAS OF EFFORT	ENVIRONMENTAL NOISE					OCCUPATIONAL NOISE	HEALTH EFFECTS			MISCELLANEOUS	
	AIR TRANSPORTATION	SURFACE TRANSPORTATION	MACHINERY	CONSTRUCTION		HEARING LOSS	NON-AUDITORY	UNDERWATER	ANIMAL RESPONSE	SPECIAL INSTRUMENTATION	ACOUSTIC DATA PROCESSING
Department of Defense											
U.S. Air Force											
Aerospace Medical Research Laboratory, OH											
• Bioacoustics Branch	B			B		B		I		I	
• Biodynamics Branch	B			B		P			B	B	
Air Force Flight Dynamics Laboratory, OH	B			I					P	P	
Air Force School of Aerospace Medicine, TX				P							

P = reported continuing program
I = reported individual projects
B = reported both programs and projects

Organizational Index

AGENCY/LABORATORY \ AREAS OF EFFORT	ENVIRONMENTAL NOISE					OCCUPATIONAL NOISE		HEALTH EFFECTS		MISCELLANEOUS	
	AIR TRANSPORTATION	SURFACE TRANSPORTATION	MACHINERY	CONSTRUCTION		HEARING LOSS	NON-AUDITORY	UNDERWATER	ANIMAL RESPONSE	SPECIAL INSTRUMENTATION	ACOUSTIC DATA PROCESSING
Department of Defense U.S. Army											
Army Aero Medical Research Laboratory, AL	P		P		P				P		
Army Audiology and Speech Center, DC				P	P	P	P				
Army Ballistics Research Laboratory, MD	I		I							I	I
Army Construction Engineering Research Laboratory, IL	B	I	I	I	B					P	P
Army Electronics Command, NJ	P				B	B	P				P
Army Environmental Hygiene Agency Bioacoustics, MD	B	B	P		P	P	P		I	I	B
Army Human Engineering Laboratory, MD	P	P	P		P	P	P				
Army Materials Systems Analysis, MD	P	P									P
Army Mobility Equipment Research and Development Center, VA		I		I	I						

P = reported continuing program
I = reported individual projects
B = reported both programs and projects

AGENCY/ LABORATORY \ AREAS OF EFFORT	ENVIRONMENTAL NOISE					OCCUPATIONAL NOISE		HEALTH EFFECTS		MISCELLANEOUS	
	AIR TRANSPORTATION	SURFACE TRANSPORTATION	MACHINERY	CONSTRUCTION		HEARING LOSS	NON-AUDITORY	UNDERWATER	ANIMAL RESPONSE	SPECIAL INSTRUMENTATION	ACOUSTIC DATA PROCESSING
Department of Defense U.S. Army – Continued											
Army Standards Laboratory, AL	P	P	P	P	P	P				P	P
Army Tank-Automotive Command, MI		P									

P = reported continuing program
I = reported individual projects
B = reported both programs and projects

Organizational Index

AGENCY/LABORATORY \ AREAS OF EFFORT	ENVIRONMENTAL NOISE					OCCUPATIONAL NOISE		HEALTH EFFECTS		MISCELLANEOUS	
	AIR TRANSPORTATION	SURFACE TRANSPORTATION	MACHINERY	CONSTRUCTION		HEARING LOSS	NON-AUDITORY	UNDERWATER	ANIMAL RESPONSE	SPECIAL INSTRUMENTATION	ACOUSTIC DATA PROCESSING
Department of Defense											
U.S. Navy											
Naval Aerospace Medical Research Laboratory (Acoustical Science Division), FL	P	P	P		B	P	P			P	P
Aircraft Environmental Support Office, CA	B	P	I	I	P					P	P
Naval Air Development Center, PA											
• Aeroelectronic Technology	I	I	I		I						
• Air Vehicle Technology	I	I	I		I						
• Crew Systems Department		I			I						
Naval Air Engineering Center, NJ	P		P		P						
Naval Air Propulsion Test Center, NJ	P		P		P		P			P	P
Naval Air Test Center, MD	I		I		I						
David Taylor Naval Ship Research and Development Center, Annapolis, MD		B	B		B			B		B	B

P = reported continuing program
I = reported individual projects
B = reported both programs and projects

AGENCY/LABORATORY \ AREAS OF EFFORT	ENVIRONMENTAL NOISE					OCCUPATIONAL NOISE	HEALTH EFFECTS			MISCELLANEOUS	
	AIR TRANSPORTATION	SURFACE TRANSPORTATION	MACHINERY	CONSTRUCTION		HEARING LOSS	NON-AUDITORY	UNDERWATER	ANIMAL RESPONSE	SPECIAL INSTRUMENTATION	ACOUSTIC DATA PROCESSING
Department of Defense											
U.S. Navy – Continued											
David Taylor Naval Ship Research and Development Center, Bethesda, MD		P	B		P		P	B		P	P
Naval Environmental Health Center, OH					P						
Naval Health Research Center, CA							I				
Naval Oceans Systems Center, CA											
• Acoustics, Behavior, and Communications Group	B		P		B		P	I	I	I	P
• Speech Systems and Interference Branch			I		I		I				
Pacific Missile Test Center, CA	I	I			B		B				
Navy Research and Development Center, CA			P				P				
Navy Research Laboratory Acoustics Division, DC								P		P	P
Naval Research Laboratory Underwater Sound Reference Division, FL								P		P	P

P = reported continuing program
I = reported individual projects
B = reported both programs and projects

AGENCY/ LABORATORY \ AREAS OF EFFORT	ENVIRONMENTAL NOISE					OCCUPATIONAL NOISE		HEALTH EFFECTS		MISCELLANEOUS	
	AIR TRANSPORTATION	SURFACE TRANSPORTATION	MACHINERY	CONSTRUCTION		HEARING LOSS	NON-AUDITORY	UNDERWATER	ANIMAL RESPONSE	SPECIAL INSTRUMENTATION	ACOUSTIC DATA PROCESSING
Department of Defense											
U.S. Navy – Continued											
Naval Weapons Support Center, IN											
• Aircraft Equipment Division	I				B						
• ASW and Aircraft Equipment Division								B			
• Fleet Logistics Support Department			I		I			I			
• Medical Department			P		P	P	P				
Naval Ship Engineering Center, VA			B		B			P		P	P
Naval Submarine Medical Laboratory, CT					B	B	B	P	B	P	
Naval Surface Weapons Center, MD								P		P	P
Naval Surface Weapons Center, VA	B	B	B	P	P		P			P	
Naval Underwater Systems Center, CT								P		P	P
Navy Weapons Center, CA	P		I								

P = reported continuing program
I = reported individual projects
B = reported both programs and projects

Organizational Index

AGENCY/ LABORATORY \ AREAS OF EFFORT	ENVIRONMENTAL NOISE					OCCUPATIONAL NOISE		HEALTH EFFECTS		MISCELLANEOUS	
	AIR TRANSPORTATION	SURFACE TRANSPORTATION	MACHINERY	CONSTRUCTION		HEARING LOSS	NON-AUDITORY	UNDERWATER	ANIMAL RESPONSE	SPECIAL INSTRUMENTATION	ACOUSTIC DATA PROCESSING
Department of Energy											
Lawrence Berkeley Laboratory, CA	I		I				I			I	I
Lawrence Livermore Laboratory, CA		I	P	P	P	P	P				
Oak Ridge National Laboratory, Union Carbide Corporation, TN			P	P	P	P					

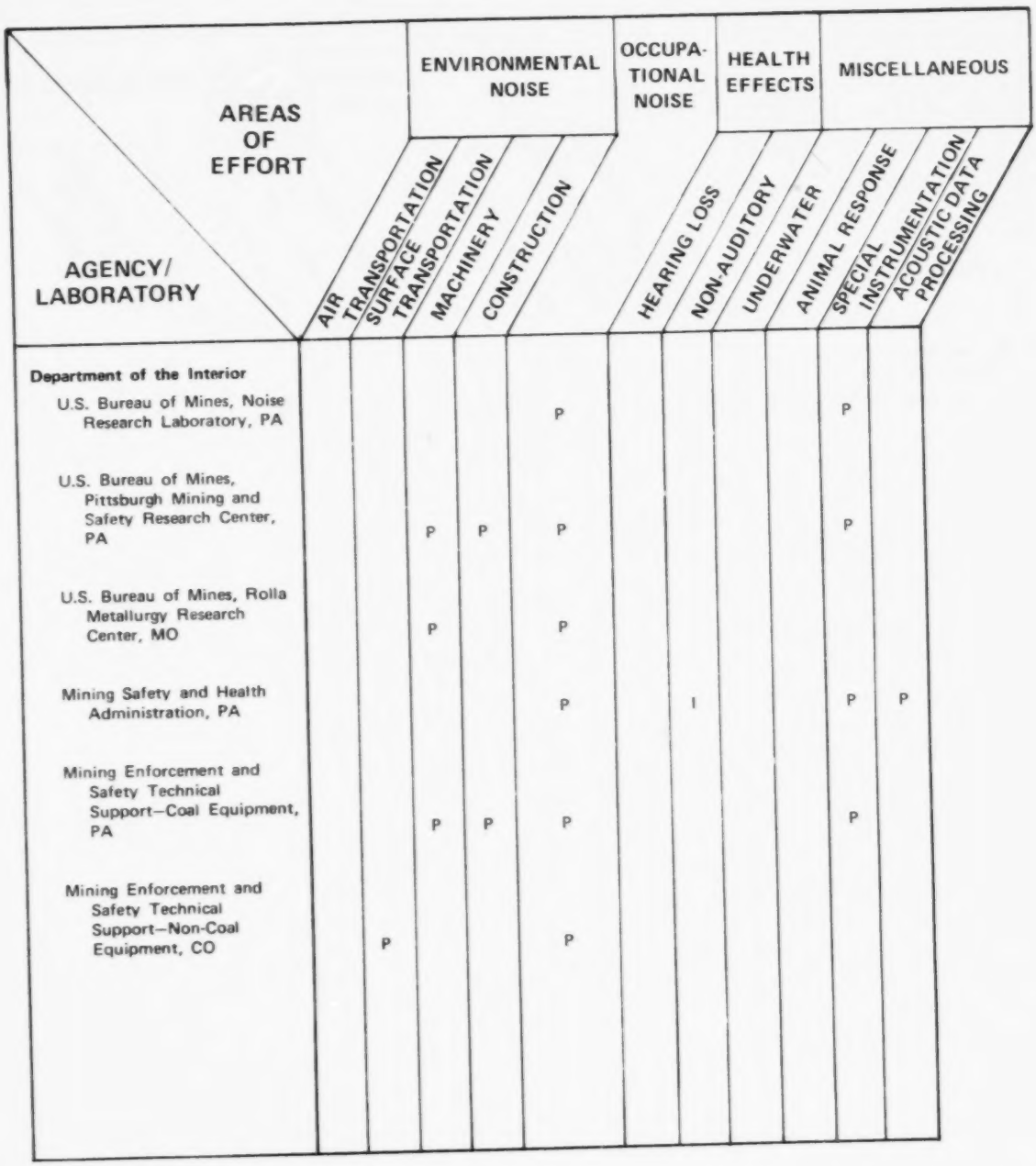
P = reported continuing program
I = reported individual projects
B = reported both programs and projects

Organizational Index

AGENCY/LABORATORY \ AREAS OF EFFORT	ENVIRONMENTAL NOISE					OCCUPATIONAL NOISE		HEALTH EFFECTS		MISCELLANEOUS	
	AIR TRANSPORTATION	SURFACE TRANSPORTATION	MACHINERY	CONSTRUCTION		HEARING LOSS	NON-AUDITORY	UNDERWATER	ANIMAL RESPONSE	SPECIAL INSTRUMENTATION	ACOUSTIC DATA PROCESSING
Environmental Protection Agency											
Noise Enforcement Facility, OH		P	P	P							
Department of Health, Education and Welfare, Public Health Service											
National Institute of Occupational Safety and Health (NOISH), OH			P		P	P			P		P
National Institute of Occupational Safety and Health Appalachian Laboratory for Occupational Safety and Health (ALOSH)/Testing and Certification, Safety Division, VA			P	P	P	P	P			P	P
National Institute of Health, MD						I					
National Institute of Environmental Health Sciences, NC						P			P		

P = reported continuing program
I = reported individual projects
B = reported both programs and projects

Organizational Index



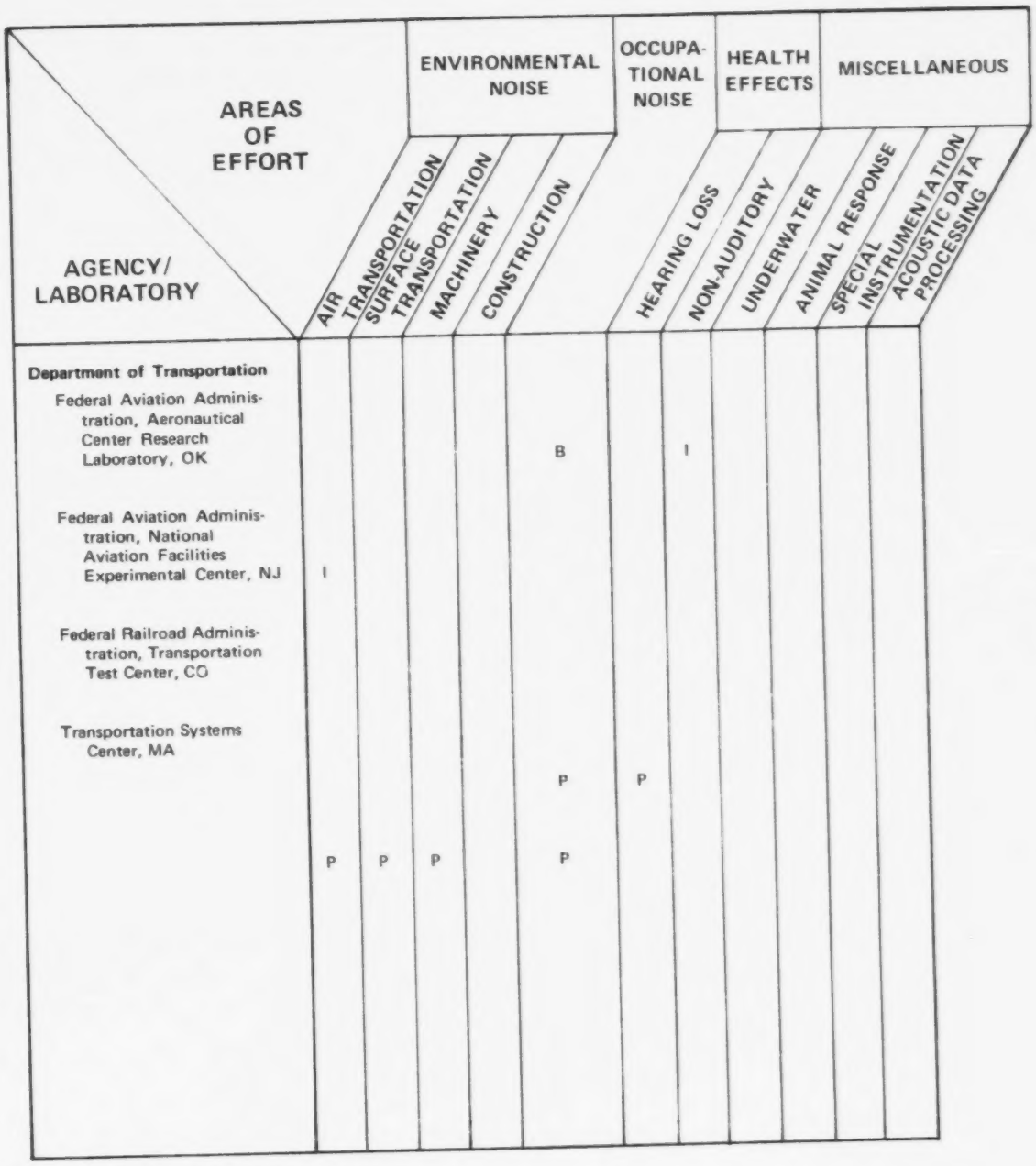
P = reported continuing program
I = reported individual projects
B = reported both programs and projects

Organizational Index

AGENCY/LABORATORY \ AREAS OF EFFORT	ENVIRONMENTAL NOISE					OCCUPATIONAL NOISE		HEALTH EFFECTS		MISCELLANEOUS	
	AIR TRANSPORTATION	SURFACE TRANSPORTATION	MACHINERY	CONSTRUCTION		HEARING LOSS	NON-AUDITORY	UNDERWATER	ANIMAL RESPONSE	SPECIAL INSTRUMENTATION	ACOUSTIC DATA PROCESSING
National Aeronautics and Space Administration											
Ames Research Center, CA	P		P		P		P			P	P
Goddard Space Flight Center, MD	P		P							P	P
Jet Propulsion Laboratory, California Institute of Technology, CA	P									P	P
Johnson Space Center, TX			B		I					I	I
Langley Research Center, VA	P	P	P		P		P			P	P
Lewis Research Center, OH	B	I	I	I							
Marshall Space Flight Center, AL			P							P	
Wallops Flight Center, VA	I										

P = reported continuing program
I = reported individual projects
B = reported both programs and projects

Organizational Index



P = reported continuing program
I = reported individual projects
B = reported both programs and projects

SECTION 2
NOISE ACTIVITIES INDEX

This section is designed to aid the reader interested in particular noise areas and activities in identifying what Federal laboratories are performing work in them. For example, if the reader wishes to know what laboratories are performing work in environmental air transportation noise, and subcategories thereof, these are listed on page II-2.

For purposes of this guide, noise activities are categorized within each area of effort as follows. Each category is broken down into subcategories on the pages following.

A. Environmental Noise
   1. Air Transportation
   2. Surface Transportation
   3. Machinery Noise
   4. Construction Noise

B. Occupational Noise
   1. Engineering Control of Sources
   2. Administrative Control of Noise
   3. Hearing Protective Devices
   4. Audiometry

C. Health Effects Research
   1. Psychoacoustics
   2. Hearing Loss

D. Miscellaneous
   1. Underwater Noise
   2. Animal Response
   3. Acoustic Data Processing
   4. Special Instrumentation

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Noise Activities Index

A-1. ENVIRONMENTAL NOISE/AIR TRANSPORTATION

AGENCY/LABORATORY	AIRCRAFT NOISE PROPAGATION	AIRCRAFT NOISE MONITORING	AIRCRAFT NOISE MEASUREMENT	NOISE MEASUREMENT TECHNIQUES	AIRCRAFT NOISE MODELING	SONIC BOOM
DEPARTMENT OF COMMERCE						
National Bureau of Standards, Washington, D.C.			P			
DEPARTMENT OF DEFENSE						
Air Force						
• Aerospace Medical Research Laboratory, OH		P				P
• Bioacoustic Branch	P	I P	P P	P P	P P	
• Biodynamics Branch			P	P		
• Flight Dynamics Laboratory, OH						
Army						
• Aero Medical Research Laboratory, AL			P I	P	I P	I
• Ballistics Research Laboratory, MD	P	P	P P	P		
• Construction Engineering Research Laboratory, IL			P		P	
• Electronics Command, NJ	I	P	I	P	P	
• Environmental Hygiene Agency, MD				P		
• Human Engineering Laboratory, MD					P	
• Materials Systems Analysis, MD				P		
• Standards Laboratory, AL						
Navy						
• Aerospace Medical Research Laboratory, FL			P	P		
• Aircraft Environmental Support Office, CA	I	P	P	P	P	I
• Air Development Center, Air Vehicle Technology Department, PA			I P	P		
• Air Engineering Center, NJ	P	P	P	P	P	
• Air Propulsion Test Center, NJ			I	I		
• Air Test Center, MD	P	P	P	P		I
• Acoustics, Behavior and Communications Group, CA	I					
• Pacific Missile Test Center, CA		P	P	P	P	
• Surface Weapons Center, Dahlgren Laboratory, VA		P	P	P		
• Weapons Center, CA		I				
• Weapons Support Center, Aircraft Equipment Division, IN						

P = reported continuing program
I = reported individual projects

A-1. ENVIRONMENTAL NOISE/AIR TRANSPORTATION - Continued

AGENCY/LABORATORY	AIRCRAFT NOISE PROPAGATION	AIRCRAFT NOISE MONITORING	AIRCRAFT NOISE MEASUREMENT TECHNIQUES	NOISE MEASUREMENT AIRCRAFT MODELING	SONIC BOOM
DEPARTMENT OF ENERGY					
• Lawrence Berkeley Laboratory, CA			I		
NASA (NATIONAL AERONAUTICS AND SPACE ADMINISTRATION)					
• Ames Research Center, CA	P	P	P	P	
• Goddard Space Flight Center, MD		P	P		
• Jet Propulsion Laboratory, CA	P	P	P	P	
• Langley Research Center, VA	P	P	P	P	
• Lewis Research Center, OH	P	I	I	P	
• Wallops Flight Center, VA	P	I			
DEPARTMENT OF TRANSPORTATION					
Federal Aviation Administration					
• National Aviation Facilities Experiment Center, NJ		P			
Transportation Systems Center, MA	P	P	P	P	

P = reported continuing program
I = reported individual projects

A-2. ENVIRONMENTAL NOISE/SURFACE TRANSPORTATION

AGENCY/LABORATORY	AUTO NOISE	TRUCK NOISE	RAILROAD NOISE	MEASUREMENT TECHNIQUES	NOISE MODELING	ADDITIONAL CATEGORIES INCLUDED BY SPECIFIED AGENCY OR DEPARTMENT
DEPARTMENT OF AGRICULTURE						
Forest Service						
• Equipment Development Center, CA				P	I	I
DEPARTMENT OF COMMERCE						
National Bureau of Standards, D.C.				P		
DEPARTMENT OF DEFENSE						
Army						
• Construction Engineering Research Laboratory, IL	I	I				
• Environmental Hygiene Agency, Biocoustics Division, MD	P	I				
• Human Engineering Laboratory, MD				P		
• Mobility Equipment Research and Development Center, VA		I				
• Standards Laboratory, AL				P		
Navy						
• David Taylor Naval Ship Research and Development Center, Annapolis, MD						P
• David Taylor Naval Ship Research and Development Center, Bethesda, MD					P	
• Aerospace Medical Research Laboratory, Acoustical Sciences Division, FL						P
• Aircraft Environmental Support Office, CA	P			P	P	
• Air Development Center, Air Vehicle Technology Department, PA	I					
• Air Development Center, Crew Systems Department, PA						I
• Pacific Missile Test Center, CA						I
Surface Weapons Center, Dahlgren Laboratory, VA					P	
DEPARTMENT OF ENERGY						
Lawrence Livermore Laboratory, CA		I				
ENVIRONMENTAL PROTECTION AGENCY						
Noise Enforcement Facility, OH	P	P	P	P		

P = reported continuing program
I = reported individual projects

A-2. ENVIRONMENTAL NOISE/SURFACE TRANSPORTATION - Continued

AGENCY/LABORATORY	AUTO NOISE	TRUCK NOISE	RAILROAD NOISE	MEASUREMENT TECHNIQUES	NOISE MODELING	ADDITIONAL CATEGORIES INCLUDED BY SPECIFIED AGENCY OR DEPARTMENT
NASA (NATIONAL AERONAUTICS AND SPACE ADMINISTRATION)						
Langley Research Center, VA	P	P		P		
Lewis Research Center, OH				I		
DEPARTMENT OF TRANSPORTATION						
Transportation Systems Center, MA	P	P	P	P	P	

P = reported continuing program
I = reported individual projects

Noise Activities Index

A-3. ENVIRONMENTAL NOISE/MACHINERY NOISE

AGENCY/LABORATORY	MEASUREMENT TECHNIQUES	BEARING NOISE	FAN NOISE	GEAR NOISE	VIBRATION	IMPULSE NOISE	ADDITIONAL CATEGORIES INCLUDED BY SPECIFIED AGENCY OR DEPARTMENT
DEPARTMENT OF AGRUCULTURE							
Forest Service							
• Equipment Development Center, CA	I						
DEPARTMENT OF COMMERCE							
National Bureau of Standards, DC	P				P		
DEPARTMENT OF DEFENSE							
Army							
• Aero Medical Research Laboratory, AL						P	
• Ballistics Research Laboratory, MD						I	
• Construction Engineering Research Laboratory, IL					I		
• Environmental Hygiene Agency, Bioacoustics Division, MD	P		P	P	P	P	
• Human Engineering Laboratory, MD						P	
• Materials Systems Analysis, MD						P	
• Standards Laboratory, AL	P						
Navy							
• David Taylor Naval Ship Research and Development Center, Annapolis, MD	P	P	P	P	P	P	
• David Taylor Naval Ship Research and Development Center, Bethesda, MD		P	P	P	P	P	
• Aerospace Medical Research Laboratory, Acoustical Sciences Division, OH						P	
• Aircraft Environmental Support Office, CA						I	
• Air Development Center, Air Vehicle Technology Department, PA			I				
• Air Engineering Center, NJ					P		
• Air Porpulsion Test Center, NJ	P	P		P	P	P	
• Air Test Center, MD					I	I	
• Naval Ocean Systems Center, CA							
• Acoustics, Behavior and Communications Group	P					P	
• Speech Systems and Interference Branch					I		
• Research and Development Center, CA	P	P	P	P	P	P	
• Ship Engineering Center, James Polk Building, National Center, VA	P	P	P	P	P	P	P
• Surface Weapons Center, Dahlgren Laboratory, VA						P	

P = reported continuing program
I = reported individual projects

A-3. ENVIRONMENTAL NOISE/MACHINERY NOISE - Continued

AGENCY/LABORATORY	MEASUREMENT TECHNIQUES	BEARING NOISE	FAN NOISE	GEAR NOISE	VIBRATION	IMPULSE NOISE	ADDITIONAL CATEGORIES INCLUDED BY SPECIFIED AGENCY OR DEPARTMENT
Navy (Continued)							
• Weapons Center, CA						I	
• Weapons Support Center, IN							
• Fleet Logistics Support Department		I	I	I			
• Medical Department	P					P	
DEPARTMENT OF ENERGY							
Lawrence Berkeley Laboratory, CA	P				P	P	
Lawrence Livermore Laboratory, CA						P	
Oak Ridge National Laboratory, TN	P	P	P	P	P	P	
ENVIRONMENTAL PROTECTION AGENCY							
Noise Enforcement Facility, OH	P		P	P			
DEPARTMENT OF HEALTH, EDUCATION AND WELFARE, PUBLIC HEALTH SERVICE							
Center for Disease Control							
• National Institute for Occupational Safety and Health, Appalachian Laboratory for Occupational Safety and Health/Testing and Certification, Safety Division, W. Va.	P	P	P	P	P	P	P
DEPARTMENT OF THE INTERIOR							
Bureau of Mines							
• Pittsburgh Mining and Safety Research Center, PA	P	P	P	P	P	P	P
• Rolla Metallurgy Research Center, MD	P			P	P	P	
Mining Enforcement and Safety							
• Technical Support – Coal Equipment, PA	P	P	P	P	P	P	
• Technical Support – Non-Coal Equipment, CO	P	P	P	P	P	P	
NASA (NATIONAL AERONAUTICS AND SPACE ADMINISTRATION)							
Ames Research Center, CA	P		P				
Goddard Space Flight Center, MD			P		P	P	

P = reported continuing program
I = reported individual projects

A-3. ENVIRONMENTAL NOISE/MACHINERY NOISE - Continued

AGENCY/LABORATORY	MEASUREMENT TECHNIQUES	BEARING NOISE	FAN NOISE	GEAR NOISE	VIBRATION	IMPULSE NOISE	ADDITIONAL CATEGORIES INCLUDED BY SPECIFIED AGENCY OR DEPARTMENT
NASA (Continued)							
Johnson Space Center, TX	I	P	P	P	I		
Langley Research Center, VA			P	P	P	P	
Lewis Research Center, OH	I						
Marshall Space Flight Center, AL	P			P	P		
DEPARTMENT OF TRANSPORTATION							
Transportation Systems Center, MA		P	P	P	P	P	

P = reported continuing program
I = reported individual projects

A-4. ENVIRONMENTAL NOISE/CONSTRUCTION NOISE

AGENCY/LABORATORY	MEASUREMENT TECHNIQUES	COMMUNITY IMPACT	NOISE REGULATIONS
DEPARTMENT OF AGRICULTURE			
Forest Service			
• Equipment Development Center, CA			P
DEPARTMENT OF COMMERCE			
National Bureau of Standards, D.C.	P		P
DEPARTMENT OF DEFENSE			
Army			
• Audiology and Speech Center (Walter Reed Medical Center), D.C.	P		P
• Construction Engineering Research Laboratory, IL	I		
• Mobility Equipment Research and Development Center, VA	P		
• Standards Laboratory, AL			
Navy	P		P
• Aircraft Environmental Support Office, CA			
• Surface Weapons Center, Dahlgren Laboratory, VA			
DEPARTMENT OF ENERGY		P	
Lawrence Livermore Laboratory, CA	P		P
Oak Ridge National Laboratory, TN			
ENVIRONMENTAL PROTECTION AGENCY	P		P
Noise Enforcement Facility, OH			
DEPARTMENT OF HEALTH, EDUCATION AND WELFARE, PUBLIC HEALTH SERVICE			
Center for Disease Control			
• National Institute for Occupational Safety and Health, Appalachian Laboratory for Occupational Safety and Health/Testing and Certification, Safety Division, W. VA	P		P

P = reported continuing program
I = reported individual projects

A-4. ENVIRONMENTAL NOISE/CONSTRUCTION NOISE - Continued

AGENCY/LABORATORY	MEASUREMENT TECHNIQUES	COMMUNITY IMPACT	NOISE REGULATIONS
DEPARTMENT OF THE INTERIOR			
Bureau of Mines			
• Pittsburgh Mining and Safety Center, PA	P		
Mining Enforcement and Safety			
• Technical Support – Coal Equipment, PA	P		P
NASA (NATIONAL AERONAUTICS AND SPACE ADMINISTRATION)			
Lewis Research Center, OH	I		

P = reported continuing program
I = reported individual projects

B-1. OCCUPATIONAL NOISE/ENGINEERING CONTROL OF SOURCES

AGENCY/LABORATORY	MATERIALS	MUFFLERS	ENCLOSURES
DEPARTMENT OF AGRICULTURE			
Forest Service			
• Equipment Development Center, CA	P	P	P
DEPARTMENT OF COMMERCE			
National Bureau of Standards, D.C.	P		P
DEPARTMENT OF DEFENSE			
Air Force			
• Flight Dynamics Laboratory, OH	P	P	P
Army			
• Audiology and Speech Center (Walter Reed Medical Center), D.C.	P	P	P
• Construction Engineering Research Laboratory, IL	P	P	P
• Electronics Command, NJ	I	I	
• Electronics Command, Avionics Laboratory, NJ	P	P	
• Environmental Hygiene Agency, Bioacoustics Division, MD	P	P	P
• Human Engineering Laboratory, MD	P	P	
• Mobility Equipment Research and Development Center, VA		I	I
Navy			
• David Taylor Naval Ship Research and Development Center, Annapolis, MD	P	P	P
• David Taylor Naval Ship Research and Development Center, Bethesda, MD	P	P	P
• Aircraft Environmental Support Office, CA			P
• Air Development Center, PA			
• Air Vehicle Technology Department	I	I	
• Air Engineering Center, NJ	P	P	P
• Air Propulsion Test Center, NJ	P	P	P
• Ocean Systems Center, CA			
• Acoustics, Behavior and Communications Group	P	P	P
• Speech Systems and Interference Branch	I		I
• Pacific Missile Test Center, CA	I	I	
• Ship Engineering Center, James Polk Building National Center, VA	P	P	P
• Surface Weapons Center, Dahlgren Laboratory, VA		P	P

P = reported continuing program
I = reported individual projects

B-1. OCCUPATIONAL NOISE/ENGINEERING CONTROL OF SOURCES - Continued

AGENCY/LABORATORY	MATERIALS	MUFFLERS	ENCLOSURES
Navy (Continued)			
• Weapons Support Center, IN			
• Aircraft Equipment Division	P	P	P
• Fleet Logistics Support Division	I		
• Medical Department	P	P	P
DEPARTMENT OF ENERGY			
Lawrence Livermore Laboratory, CA		P	P
Oak Ridge National Laboratory, TN	P	P	P
DEPARTMENT OF HEALTH, EDUCATION AND WELFARE, PUBLIC HEALTH SERVICE			
Center for Disease Control			
• National Institute for Occupational Safety and Health, Cincinnati, OH	P	P	P
DEPARTMENT OF THE INTERIOR			
Bureau of Mines			
• Noise Research Laboratory, PA	P		
• Pittsburgh Mining and Safety Research Center, PA	P	P	P
• Rolla Metallurgy Research Center, MO	P	P	P
Mining Enforcement and Safety			
• Technical Support – Coal Equipment, PA	P	P	P
• Technical Support – Non-Coal Equipment, CO			P
Mine Safety and Health Administration, PA			
• Noise Branch	P	P	P
NASA (NATIONAL AERONAUTICS AND SPACE ADMINISTRATION)			
Ames Research Center, CA	P	P	
Johnson Space Center, TX	I	I	I
Langley Research Center, VA	P		
DEPARTMENT OF TRANSPORTATION			
Transportation Systems Center, MA	P	P	P

P = reported continuing program
I = reported individual projects

B-2. OCCUPATIONAL NOISE/ADMINISTRATIVE CONTROL OF NOISE

AGENCY/LABORATORY	DOSIMETRY	TIME STUDIES
DEPARTMENT OF AGRICULTURE		
Forest Service		
• Equipment Development Center, CA	I	
DEPARTMENT OF COMMERCE		
National Bureau of Standards, D.C.	P	P
DEPARTMENT OF DEFENSE		
Air Force		
• Aerospace Medical Research Laboratory, Bioacoustics Branch, OH	I	
• School of Aerospace Medicine, TX		P
Army		
• Audiology and Speech Center (Walter Reed Medical Center), D.C.		P
• Construction Engineering Research Laboratory, IL		I
• Standards Laboratory, AL	P	
Navy		
• Aerospace Medical Research Laboratory, Acoustical Sciences Division, FL	P	
• Air Propulsion Test Center, NJ	P	
• Air Test Center, MD	I	
• Environmental Health Center, OH	P	P
• Weapons Support Center, Medical Department, IN	P	P
DEPARTMENT OF ENERGY		
Lawrence Livermore Laboratory, CA	P	P
Oak Ridge National Laboratory, TN	P	P
DEPARTMENT OF HEALTH, EDUCATION AND WELFARE, PUBLIC HEALTH SERVICE		
Center for Disease Control		
• National Institute of Occupational Safety and Health, Appalachian Laboratory for Occupational Safety and Health/Testing and Certification, Safety Division, W. VA	P	P
DEPARTMENT OF THE INTERIOR		
Mining Enforcement and Safety		
• Technical Support – Coal Equipment, PA	P	P
• Technical Support – Non-Coal Equipment, CO	P	P

P = reported continuing program
I = reported individual projects

B-2. OCCUPATIONAL NOISE/ADMINISTRATIVE CONTROL OF NOISE - Continued

AGENCY/LABORATORY	DOSIMETRY	TIME STUDIES
DEPARTMENT OF THE INTERIOR (Continued)		
Mine Safety and Health Administration		
• Noise Branch, PA	P	P
DEPARTMENT OF TRANSPORTATION		
Federal Aviation Administration		
• Aeronautical Center Research Laboratory, OK	P	P
Federal Railroad Administration		
• Transportation Test Center, CO	P	P

P = reported continuing program
I = reported individual projects

B-3. OCCUPATIONAL NOISE/HEARING PROTECTIVE DEVICES

AGENCY/LABORATORY	EAR PROTECTORS	HELMET DESIGN
DEPARTMENT OF AGRICULTURE		
Forest Service		
• Equipment Development Center, CA	I	
DEPARTMENT OF DEFENSE		
Air Force		
• Aerospace Medical Research Laboratory, OH		
• Bioacoustics Branch	I	P
• Biodynamics Branch	P	
Army		
• Aero Medical Research Laboratory, AL	P	P
• Audiology and Speech Center (Walter Reed Medical Center), D.C.	P	
• Electronics Command, NJ		P
• Electronics Command, Avionics Laboratory, NJ	P	P
• Environmental Hygiene Agency, Bioacoustics Division, MD	P	P
• Human Engineering Laboratory, MD	P	P
Navy		
• Aerospace Medical Research Laboratory, Acoustical Sciences Division, FL	P	P
• Air Development Center, PA		
• Air Vehicle Technology Center		I
• Crew Systems Department	I	I
• Air Propulsion Test Center, NJ	P	
• Ocean Systems Center, Acoustics, Behavior and Communications Group, CA	P	I
• Pacific Missile Test Center, CA	I	P
• Ship Engineering Center, James Polk Building National Center, VA	P	
• Submarine Medical Research Laboratory, Auditory Division, CT	P	
• Weapons Support Center, Aircraft Equipment Division, IN		I
DEPARTMENT OF ENERGY		
Lawrence Livermore Laboratory, CA	P	
Oak Ridge National Laboratory, TN	P	
DEPARTMENT OF HEALTH, EDUCATION AND WELFARE, PUBLIC HEALTH SERVICE		
Center for Disease Control		
• National Institute of Occupational Safety and Health, Cincinnati, OH	P	

P = reported continuing program
I = reported individual projects

B-3. OCCUPATIONAL NOISE/HEARING PROTECTIVE DEVICES - Continued

AGENCY/LABORATORY	EAR PROTECTORS	HELMET DESIGN
Center for Disease Control (Continued)		
• National Institute of Occupational Safety and Health, Appalachian Laboratory for Occupational Safety and Health/Testing and Certification, Safety Division, W. VA	P	P
DEPARTMENT OF THE INTERIOR		
Mining Enforcement and Safety		
• Technical Support – Coal Equipment, PA	P	
Mine Safety and Health Administration		
• Noise Branch, PA	P	
DEPARTMENT OF TRANSPORTATION		
Federal Aviation Administration		
• Aeronautical Center Research Laboratory, OK	I	

P = reported continuing program
I = reported individual projects

B-4. OCCUPATIONAL NOISE/AUDIOMETRY

AGENCY/LABORATORY	HEARING LOSS	EQUIPMENT DESIGN
DEPARTMENT OF AGRICULTURE		
Forest Service		
• Equipment Development Center, CA	B	
DEPARTMENT OF COMMERCE		
National Bureau of Standards, D.C.		
DEPARTMENT OF DEFENSE		
Air Force		
• Aerospace Medical Research Laboratory, Bioacoustics Branch, OH	I	
• School of Aerospace Medicine, TX		P
Army		
• Aero Medical Research Laboratory, AL		P
• Audiology and Speech Center (Walter Reed Medical Center), D.C.	P	P
• Electronics Command, Avionics Laboratory, NJ	P	
• Environmental Hygiene Agency, Bioacoustics Division, MD	P	P
• Human Engineering Laboratory, MD	P	
• Standards Laboratory, AL		P
Navy		
• Aerospace Medical Research Laboratory, Acoustical Sciences Division, FL	P	
• Air Propulsion Test Center, NJ	P	
• Pacific Missile Test Center, CA	I	
• Submarine Medical Research Laboratory, Auditory Division, CT	P	P
DEPARTMENT OF ENERGY		
Lawrence Livermore Laboratory, CA	P	
Oak Ridge National Laboratory, TN	P	
DEPARTMENT OF HEALTH, EDUCATION AND WELFARE, PUBLIC HEALTH SERVICE		
Center for Disease Control		
• National Institute for Occupational Safety and Health, Cincinnati, OH	P	
• National Institute for Occupational Safety and Health, Appalachian Laboratory for Occupational Safety and Health/Testing and Certification, Safety Division, W. VA	P	P

P = reported continuing program
I = reported individual projects

B-4. OCCUPATIONAL NOISE/AUDIOMETRY - Continued

AGENCY/LABORATORY	HEARING LOSS	EQUIPMENT DESIGN
DEPARTMENT OF TRANSPORTATION		
Federal Aviation Administration		
• Aeronautical Center Research Laboratory, OK	P	
Federal Railroad Administration		
• Transportation Test Center, CO	P	

P = reported continuing program
I = reported individual projects

Noise Activities Index

C-1. HEALTH EFFECTS RESEARCH/NON-AUDITORY EFFECTS OF NOISE

AGENCY/LABORATORY	ANNOYANCE	TRAUMA	SPEECH INTERFERENCE	EFFECTS ON PERFORMANCE
DEPARTMENT OF AGRICULTURE				
Forest Service				
• Equipment Development Center, CA	I		I	
DEPARTMENT OF COMMERCE				
National Bureau of Standards, D.C.	P			
DEPARTMENT OF DEFENSE				
Air Force				
• Aerospace Medical Research Laboratory, OH				
• Bioacoustics Branch	I	P	I	I
• Biodynamics Branch	P		P	P
Army				
• Audiology and Speech Center (Walter Reed Medical Center), D.C.		P	P	P
• Electronics Command, NJ			I	
• Electronics Command, Avionics Laboratory, NJ			P	P
• Environmental Hygiene Agency, Bioacoustics Division, MD		P	P	
• Human Engineering Laboratory, MD			P	P
Navy				
• David Taylor Naval Ship Research and Development Center, Bethesda, MD			P	
• Aerospace Medical Research Laboratory, Acoustical Sciences Division, FL		P	P	P
• Air Propulsion Test Center, NJ	P		P	
• Health Research Center, CA	I	I		I
• Ocean Systems Center, CA				
• Acoustics, Behavior and Communications Group	P		P	P
• Speech Systems and Interference Branch			I	
• Pacific Missile Test Center, CA			I	P
• Research and Development Center, CA	P	P	P	P
• Submarine Medical Research Laboratory, Auditory Division, CT	P	B	P	P
• Surface Weapons Center, Dahlgren Laboratory, VA	P			
• Weapons Support Center, Medical Department, IN	P	P	P	
DEPARTMENT OF ENERGY				
Lawrence Berkeley Laboratory, CA	P	P	P	P
Lawrence Livermore Laboratory, CA	P		P	

P = reported continuing program
I = reported individual projects

C-1. HEALTH EFFECTS RESEARCH/NON-AUDITORY EFFECTS OF NOISE - Continued

AGENCY/LABORATORY	ANNOYANCE	TRAUMA	SPEECH INTERFERENCE	EFFECTS ON PERFORMANCE
DEPARTMENT OF HEALTH, EDUCATION AND WELFARE, PUBLIC HEALTH SERVICE				
Center for Disease Control				
• National Institute for Occupational Safety and Health, Appalachian Laboratory for Occupational Safety and Health/Testing and Certification, Safety Division, W. VA				P
DEPARTMENT OF THE INTERIOR				
Mine Safety and Health Administration				
• Noise Branch, PA			I	I
NASA (NATIONAL AERONAUTICS AND SPACE ADMINISTRATION)				
Ames Research Center, CA	P		P	
DEPARTMENT OF TRANSPORTATION				
Federal Aviation Administration				
• Aeronautical Center Research Laboratory, OK		I		

P = reported continuing program
I = reported individual projects

C-2. HEALTH EFFECTS RESEARCH/HEARING LOSS

AGENCY/LABORATORY	MEASUREMENT TECHNIQUES	MEDICAL EFFECTS
DEPARTMENT OF AGRICULTURE		
Forest Service		
• Equipment Development Center, CA	I	
DEPARTMENT OF COMMERCE		
National Bureau of Standards, D.C.	P	
DEPARTMENT OF DEFENSE		
Army		
• Audiology and Speech Center (Walter Reed Medical Center), D.C.	P	
• Electronics Command, Avionics Laboratory, NJ	P	
• Environmental Hygiene Agency, Bioacoustics Division, MD	P	P
• Human Engineering Laboratory, MD	P	
• Standards Laboratory, AL	P	
Navy		
• Aerospace Medical Research Laboratory, Acoustical Sciences Division, FL	P	
• Submarine Medical Research Laboratory, Auditory Division, CT	P	P
• Weapons Support Center, Medical Department, IN	P	
DEPARTMENT OF ENERGY		
Lawrence Livermore Laboratory, CA		P
Oak Ridge National Laboratory, TN	P	P
DEPARTMENT OF HEALTH, EDUCATION AND WELFARE, PUBLIC HEALTH SERVICE		
Center for Disease Control		
• National Institute for Occupational Safety and Health, Cincinnati, OH	P	P
• National Institute for Occupational Safety and Health, Appalachian Laboratory for Occupational Safety and Health/Testing and Certification, Safety Division, VA	P	
National Institutes of Health		
• National Institute of Environmental Health Science, Laboratory of Environmental Physics, NC		P

P = reported continuing program
I = reported individual projects

D. MISCELLANEOUS RELATED ACTIVITIES

AGENCY/LABORATORY	ANIMAL RESPONSE TO SOUND	SPECIAL INSTRUMENTATION	ACOUSTIC DATA PROCESSING	UNDERWATER NOISE
DEPARTMENT OF AGRICULTURE				
Forest Service				
• Equipment Development Center, CA	I			
DEPARTMENT OF COMMERCE				
National Bureau of Standards, D.C.		P	P	
National Oceanic and Atmospheric Administration				
• Wave Propagation Laboratory, CO		P		
DEPARTMENT OF DEFENSE				
Air Force				
• Aerospace Medical Research Laboratory, Bioacoustics Branch, OH	I		I	
• Flight Dynamics Laboratory, OH		P	P	
Army				
• Aero Medical Research Laboratory, AL				P
• Ballistics Research Laboratory, MD		I	I	
• Construction Engineering Research Laboratory, IL		P	P	
• Electronics Command, Avionics Laboratory, NJ			P	
• Environmental Hygiene Agency, Bioacoustics Division, MD	I	I	P	
• Materials Systems Analysis, MD			P	
• Standards Laboratory, AL		P	P	
• Ocean Systems Center, Acoustics, Behavior and Communications Group, CA	I			
Navy				
• David Taylor Naval Ship Research and Development Center, Annapolis, MD		P	P	P
• David Taylor Naval Ship Research and Development Center, Bethesda, MD		P	P	P
• Aerospace Medical Research Laboratory, Acoustical Sciences Division, FL		P	P	
• Aircraft Environmental Support Office, CA		P	P	
• Air Development Center, Aeroelectronic Technology Department, PA			P	P
• Air Propulsion Test Center, NJ		P	P	
• Ocean Systems Center, Acoustics, Behavior and Communications Group, CA		I		I
• Research Laboratory, Acoustics Division, D.C.		P	P	P
• Research Laboratory, Underwater Sound Reference Division, FL		P	P	P
• Ship Engineering Center, James Polk Building National Center, VA		P	P	P
• Submarine Medical Research Laboratory, Auditory Division, CT	P	P		P

P = reported continuing program
I = reported individual projects

D. MISCELLANEOUS RELATED ACTIVITIES - Continued

AGENCY/LABORATORY	ANIMAL RESPONSE TO SOUND	SPECIAL INSTRUMENTATION	ACOUSTIC DATA PROCESSING	UNDERWATER NOISE
Navy (Continued)				
• Surface Weapons Center, MD		P	P	P
• Surface Weapons Center, Dahlgren Laboratory, VA		P		
• Underwater Systems Center, CT		P	P	P
• Weapons Support Center, IN				P
• ASW and Aircraft Equipment Division				I
• Fleet Logistics Support Department				
DEPARTMENT OF ENERGY				
Lawrence Berkeley Laboratory, CA		P	P	
DEPARTMENT OF HEALTH, EDUCATION AND WELFARE, PUBLIC HEALTH SERVICE				
Center for Disease Control				
• National Institute for Occupational Safety and Health, Cincinnati, OH	P		P	
• National Institute for Occupational Safety and Health, Appalachian Laboratory for Occupational Safety and Health/Testing and Certification, Safety Division, W. VA		P	P	
DEPARTMENT OF THE INTERIOR				
Bureau of Mines		P		
• Noise Research Laboratory, PA		P		
• Pittsburgh Mining and Safety Research Center, PA				
Mining Enforcement and Safety		P		
• Technical Support – Coal Equipment, PA				
Mine Safety and Health Administration		P	P	
• Noise Branch, PA				
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION				
Ames Research Flight Center, CA	P	P		
Goddard Space Flight Center, MD	P	P		
Jet Propulsion Laboratory, CA	P	P		
Johnson Space Center, TX	I	I		
Langley Research Center, VA	P	P		
Marshall Space Flight Center, AL		P		

P = reported continuing program
I = reported individual projects

SECTION 3
NOISE INSTRUMENTATION AND SPECIAL FACILITIES INDEX

This section identifies the Federal laboratories and related research facilities which have the following instrumentation and facilities for noise measurement:*

A. Analog Tape Recorders

B. Community Noise Monitors

C. Dosimeters

D. Signal Processing Equipment

E. Audiometric Boothes

F. Anechoic Chambers

G. Semireverberant Room

H. Scale Model Test Facilities

I. Computers

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*All the facilities listed are presumed to have sound level meters and calibrators; therefore, these are not included.

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Noise Instrumentation and Special Facilities Index

A. ANALOG TAPE RECORDERS – Instruments which continuously record the physical sound input.

AGENCY	LABORATORY/FACILITY
DEPARTMENT OF AGRICULTURE, FOREST SERVICE	Equipment Development Center, CA
DEPARTMENT OF COMMERCE	
National Bureau of Standards	
DEPARTMENT OF DEFENSE	
Air Force	Aerospace Medical Research Laboratory, OH • Bioacoustics Branch • Biodynamics Branch Flight Dynamics Laboratory, OH
Army	Aero Medical Research Laboratory, AL Audiology and Speech Center (Walter Reed Army Medical Center), D.C. Ballistics Research Laboratory, MD Construction Engineering Research Laboratory, IL Electronics Command, NJ Electronics Command, Avionics Laboratory, NJ Environmental Hygiene Agency, MD Mobility Equipment Research and Development Center, VA Tank-Automotive Command, MI
Navy	David Taylor Naval Ship Research and Development Center, Annapolis, MD David Taylor Naval Ship Research and Development Center, Bethesda, MD Aerospace Medical Research Laboratory, Acoustical Sciences Division, FL Aircraft Environmental Support Office, CA Air Engineering Center, NJ Air Propulsion Test Center, NJ Air Test Center, MD Environmental Health Center, OH Ocean Systems Center, Speech Systems and Interference Branch, CA Pacific Missile Test Center, CA Research and Development Center, CA Research Laboratory, Acoustics Division, D.C. Submarine Medical Research Laboratory, Auditory Division, CT Surface Weapons Center, MD Surface Weapons Center, Dahlgren Laboratory, VA Weapons Center, CA
DEPARTMENT OF ENERGY	Lawrence Berkeley Laboratory, CA Lawrence Livermore Laboratory, CA
ENVIRONMENTAL PROTECTION AGENCY	Noise Enforcement Facility, OH

A. ANALOG TAPE RECORDERS – Continued

AGENCY	LABORATORY/FACILITY
DEPARTMENT OF HEALTH, EDUCATION AND WELFARE, PUBLIC HEALTH SERVICE	
Center for Disease Control	National Institute for Occupational Safety and Health, Cincinnati, OH National Institute for Occupational Safety and Health, Appalachian Laboratory for Occupational Safety and Health/Testing and Certification, Safety Division, W. VA National Institute of Environmental Health Sciences, Laboratory of Environmental Physics, NC
DEPARTMENT OF THE INTERIOR	
Bureau of Mines	Noise Research Laboratory, PA Pittsburgh Mining and Safety Research Center, PA Rolla Metallurgy Research Center, MO
Mining Enforcement and and Safety Administration	Technical Support – Coal Equipment, PA Technical Support – Non-Coal Equipment, CO
Mining Safety and Health Administration	Noise Branch, PA
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION	Ames Research Center, CA Goddard Space Flight Center, MD Jet Propulsion Laboratory, CA Johnson Space Center, TX Langley Research Center, OH Marshall Space Flight Center, AL Wallops Flight Center,* VA
DEPARTMENT OF TRANSPORTATION	
Federal Aviation Administration	Transportation Systems Center, MA Aeronautical Center Research Laboratory, OK

*digital tape recorder, not analog

B. COMMUNITY NOISE MONITORS – Surveys which record the temporal sound pressures in dBA and provide statistical analyses of sound levels presenting the results in histograms.

AGENCY	LABORATORY/FACILITY
DEPARTMENT OF COMMERCE	
National Bureau of Standards	
DEPARTMENT OF DEFENSE	
Air Force	Aerospace Medical Research Laboratory, Biodynamics Branch, OH
Army	Construction Engineering Research Laboratory, IL Environmental Hygiene Agency, Bioacoustics Division, MD Standards Laboratory, AL
Navy	Aerospace Medical Research Laboratory, Acoustical Sciences Division, FL Aircraft Environmental Support Office, CA Naval Oceans Systems Center, Acoustics, Behavior and Communications Group, CA Weapons Center, CA Weapons Support Center, Medical Department, CA
DEPARTMENT OF HEALTH, EDUCATION AND WELFARE, PUBLIC HEALTH SERVICE	
Center for Disease Control	National Institute for Occupational Safety and Health, Appalachian Laboratory for Occupational Safety and Health/Testing and Certification, Safety Division, W. VA
DEPARTMENT OF TRANSPORTATION	Transportation Systems Center, MA

C. DOSIMETERS – Devices that measure accumulated noise exposure. Many can be worn by a worker throughout the workday to determine his or her total noise exposure for that time.

AGENCY	LABORATORY/FACILITY
DEPARTMENT OF AGRICULTURE	
Forest Service	Equipment Development Center, CA
DEPARTMENT OF COMMERCE	
National Bureau of Standards	
DEPARTMENT OF DEFENSE	
Air Force	Aerospace Medical Research Laboratory, Bioacoustics Branch, OH
Army	Construction Engineering Research Laboratory, IL Mobility Equipment Research and Development Center, VA Tank-Automotive Command, MI
Navy	Aerospace Medical Research Laboratory, Acoustical Sciences Division, FL Air Propulsion Test Center, NJ Air Test Center, MD Environment Health Center, OH Weapons Support Center, Medical Department, CA
DEPARTMENT OF ENERGY	Lawrence Livermore Laboratory, CA Oak Ridge National Laboratory, TN
DEPARTMENT OF HEALTH, EDUCATION AND WELFARE, PUBLIC HEALTH SERVICE	
Center for Disease Control	National Institute for Occupational Safety and Health, Appalachian Laboratory for Occupational Safety and Health/Testing and Certification, Safety Division, W. VA
DEPARTMENT OF THE INTERIOR	
Bureau of Mines	Noise Research Laboratory, PA Rolla Metallurgy Research Center, MO
Mining Enforcement and Safety	Technical Support – Coal Equipment, PA Technical Support – Non-Coal Equipment, CO
Mining Safety and Health Administration	Noise Branch, PA
DEPARTMENT OF TRANSPORTATION	
Federal Aviation Administration	Aeronautical Center Research Laboratory, OK

C. DOSIMETERS – Continued

AGENCY	LABORATORY/FACILITY
DEPARTMENT OF TRANSPORTATION (Continued)	
Federal Railroad Administration	Transportation Test Center, CO.

D. SIGNAL PROCESSING EQUIPMENT – Equipment which manipulate acoustic signatures for analytical purposes (e.g., octave band analyzers).

AGENCY	LABORATORY/FACILITY
DEPARTMENT OF AGRICULTURE	
Forest Service	Equipment Development Center, CA
DEPARTMENT OF COMMERCE	
National Bureau of Standards	
National Oceanic and Atmospheric Administration	Wave Propagation Laboratory, CO
DEPARTMENT OF DEFENSE	
Air Force	Aerospace Medical Research Laboratory, Bioacoustics Branch, OH Aerospace Medical Research Laboratory, Biodynamic Branch, OH Flight Dynamics Laboratory, OH
Army	Aero Medical Research Laboratory, AL Audiology and Speech Center (Walter Reed Army Medical Center), Washington, D.C. Ballistics Research Laboratory, MD Construction Engineering Research Laboratory, IL Electronics Command, Avionics Laboratory, NJ Environmental Hygiene Agency, Bioacoustics Division, MD Human Engineering Laboratory, MD Mobility Equipment Research and Development, VA Tank-Automotive Command, MI
Navy	David Taylor Naval Ship Research and Development Center, Annapolis, MD David Taylor Naval Ship Research and Development Center, Bethesda, MD Aerospace Medical Research Laboratory, Acoustical Sciences Division, FL Aircraft Environmental Support Office, CA Air Development Center, Aeroelectronic Technology Department, PA Air Engineering Center, NJ Air Propulsion Test Center, NJ Air Test Center, MD Environmental Health Center, OH Ocean Systems Center, Acoustics, Behavior and Communications Group, CA Ocean Systems Center, Speech Systems and Interference Branch, CA Pacific Missile Test Center, CA Research and Development Center, CA Research Laboratory, Acoustics Division, Washington, D.C. Research Laboratory, Underwater Sound Reference Division, FL Submarine Medical Research Laboratory, Auditory Division, CT Surface Weapons Center, VA Weapons Center CA

D. SIGNAL PROCESSING EQUIPMENT – Continued

AGENCY	LABORATORY/FACILITY
Navy (Continued)	
	Weapons Support Center, ASW and Aircraft Equipment Division, IN
	Weapons Support Center, Medical Department, IN
DEPARTMENT OF ENERGY	Lawrence Berkeley Laboratory, CA
ENVIRONMENTAL PROTECTION AGENCY	Noise Enforcement Facility, OH
DEPARTMENT OF HEALTH, EDUCATION AND WELFARE, PUBLIC HEALTH SERVICE	
Center for Disease Control	National Institute for Occupational Safety and Health, OH
	National Institute for Occupational Safety and Health, Appalachian Laboratory for Occupational Safety and Health/Testing and Certification, Safety Division, W. VA
National Institutes of Health	National Institute of Environmental Health Sciences, Laboratory of Environmental Physics, NC
DEPARTMENT OF THE INTERIOR	
Bureau of Mines	Noise Research Laboratory, PA
	Pittsburgh Mining and Safety Research Center, PA
	Rolla Metalurgy Research Center, MO
Mining Enforcement and Safety	Technical Support – Coal Equipment, PA
	Technical Support – Non-Coal Equipment, CO
Mining Safety and Health Administration	Noise Branch, PA
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION	Ames Research Center, CA
	Goddard Space Flight Center, MD
	Jet Propulsion Laboratory, CA
	Johnson Space Center, TX
	Langley Research Center, VA
	Wallops Flight Center, VA
DEPARTMENT OF TRANSPORTATION	
Federal Railroad Administration	Transportation Systems Center, MA
	Transportation Test Center, CO

E. AUDIOMETRIC BOOTH – Specially designed room which allows background noise to be kept at an absolute minimum so that valid audiometric (hearing measurement) tests can be made.

AGENCY	LABORATORY/FACILITY	CHARACTERISTICS
DEPARTMENT OF AGRICULTURE		
Forest Service	Equipment Development Center, CA	
DEPARTMENT OF COMMERCE		
National Bureau of Standards		1x1x2.1m, 2.5x3x2m
DEPARTMENT OF DEFENSE		
Air Force	Aerospace Medical Research Laboratory, Bioacoustics Branch, OH	
	Aerospace Medical Research Laboratory, Biodynamics Branch, OH	
	School of Aerospace Medicine, TX	
Army	Aero Medical Research Laboratory, AL	Double Wall Booth (4)
	Audiology and Speech Center (Walter Reed Army Medical Center), Washington, D.C.	Double Wall, Double Booth (5)
	Electronics Command, Avionics Laboratory, NJ	Single Wall Booth (1 man) (3)
	Human Engineering Laboratory, MD	
Navy	David Taylor Naval Ship Research and Development Center, Bethesda, MD	
	Air Propulsion Test Center, NJ	
	Pacific Missile Test Center, CA	1AC 1200 401
	Submarine Medical Research Laboratory, Auditory Division, CT	Clinical (2)
	Weapons Support Center, Medical Department, IN	1AC Model 400A
	Submarine Medical Research Laboratory, CT	
DEPARTMENT OF ENERGY	Lawrence Berkeley Laboratory, CA	4x4
	Oak Ridge National Laboratory, TN	40"x36"x78" height
		76"x72"x78" height
DEPARTMENT OF HEALTH, EDUCATION AND WELFARE, PUBLIC HEALTH SERVICE		
Center for Disease Control	National Institute for Occupational Safety and Health, Appalachian Laboratory for Occupational Safety and Health/Testing and Certification, Safety Division, W. VA	
DEPARTMENT OF THE INTERIOR		
Mining Safety and Health Administration	Noise Branch, PA	Soundproof Room, 6'x6'x8'

E. AUDIOMETRIC BOOTH – Continued

AGENCY	LABORATORY/FACILITY	CHARACTERISTICS
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION	Ames Research Center, CA Lewis Research Center, OH	4x4
DEPARTMENT OF TRANSPORTATION		
Federal Aviation Administration	Aeronautical Center Research Laboratory, OK	Single person (automatic) (6)
Federal Railroad Administration	Transportation Test Center, CO	3'x3'

F. ANECHOIC CHAMBER – A room whose boundaries have been specially designed with acoustically absorbent material to absorb nearly all the sound incident on its boundaries, thereby affording a test room essentially free from reflected sound.

AGENCY	LABORATORY/FACILITY	NUMBER	CHARACTERISTICS
DEPARTMENT OF COMMERCE			
National Bureau of Standards		1	10.1x6.7x6.7m (wedge tips)
DEPARTMENT OF DEFENSE			
Air Force	Aerospace Medical Research Laboratory, OH • Bioacoustics Branch • Biodynamics Branch		
	Flight Dynamics Laboratory, OH	1	Not specified
Army	Aero Medical Research Laboratory, AL	1	10'x12'
	Electronics Command, Avionics Laboratory, NJ	1	9'x9'x7'
	Human Engineering Laboratory, MD	Not specified	Not reported
	Tank-Automotive Command, MI	1	Somi 14'x16'x34'
Navy	David Taylor Naval Ship Research and Development Center, Annapolis, MD	Not specified	Not reported
	David Taylor Naval Ship Research and Development Center, Bethesda, MD	Not specified	Not reported
	Aerospace Medical Research Laboratory, Acoustical Sciences Division, FL	Not specified	Not reported
	Air Development Center, Aero Electronic Technology Department, PA	Not specified	Not reported
	Air Propulsion Test Center, NJ	Not specified	Not reported
	Pacific Missile Test Center, CA	1	2,600 cu.ft.
	Submarine Medical Research Laboratory, Auditory Division, CT	4	32' on a side (2), 12' on a side (2)
	Weapons Center, CA	2	20'x20'
	Weapons Support Center, ASW and Aircraft Equipment Division, IN	Not specified	Hydroacoustics Tanks
DEPARTMENT OF HEALTH, EDUCATION AND WELFARE, PUBLIC HEALTH SERVICE			
Center for Disease Control	National Institute for Occupational Safety and Health, Appalachian Laboratory for Occupational Safety and Health/Testing and Certification, Safety Division, W.VA	1	Not specified

F. ANECHOIC CHAMBER – Continued

AGENCY	LABORATORY/FACILITY	NUMBER	CHARACTERISTICS
DEPARTMENT OF THE INTERIOR			
Mining Enforcement and Safety	Technical Support – Coal Equipment, PA	1	Not reported
Mining Safety and Health Administration	Noise Branch, PA	1	10'x10'x10' (wedge)
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION	Ames Research Center, CA	1	9'x14'x7'
	Goddard Space Flight Center, MD	1	500 cu.ft.
	Jet Propulsion Laboratory, CA	1	5mx8mx3m
	Langley Research Center, VA	1	Not reported
DEPARTMENT OF TRANSPORTATION			
Federal Aviation Administration	Aeronautical Center Research Laboratory, OK	1	15'x15'x15'

G. SEMIREVERBERANT ROOM – An enclosure used for making acoustical measurements in which some surfaces have known sound reflective properties.

AGENCY	LABORATORY/FACILITY	NUMBER	DIMENSIONS
DEPARTMENT OF DEFENSE			
Air Force	Aerospace Medical Research Laboratory, Bioacoustics Branch, OH		
	Aerospace Medical Research Laboratory, Biodynamics Branch, OH		
	Flight Dynamics Laboratory, OH	1	Not reported
Army	Electronics Command, Avionics Laboratory, NJ	1	10'x14'
Navy	David Taylor Naval Ship Research and Development Center, Annapolis, MD	Not specified	Not reported
	David Taylor Naval Ship Research and Development Center, Bethesda, MD	Not specified	Not reported
	Aerospace Medical Research Laboratory, Acoustical Sciences Division, FL		
	Ocean Systems Center, Speech Systems and Interference Branch, CA	1	8'x11'x7', 4'x7'x3'
	Submarine Medical Research Laboratory, Auditory Division, CT	5	
DEPARTMENT OF HEALTH, EDUCATION AND WELFARE, PUBLIC HEALTH SERVICE			
Center for Disease Control	National Institute for Occupational Safety and Health, Appalachian Laboratory for Occupational Safety and Health/Testing and Certification, Safety Division, W.VA	1	Not specified
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION	Langley Research Center, VA	1	Not specified

H. REVERBERATION ROOM – An enclosure used for making acoustical measurements in which all surfaces have known sound reflective properties.

AGENCY	LABORATORY/FACILITY	NUMBER	DIMENSIONS
DEPARTMENT OF COMMERCE			
National Bureau of Standards		1	6.1x7.6x9.1m
DEPARTMENT OF DEFENSE			
Air Force	Aerospace Medical Research Laboratory, OH		
	• Bioacoustics Branch	1	Not specified
	• Biodynamics Branch	1	Not specified
	Flight Dynamics Laboratory, OH	Not specified	Not reported
Army	Aero Medical Research Laboratory (plans to build)		
	Human Engineering Laboratory, MD	Not specified	Not reported
Navy	David Taylor Naval Ship Research and Development Center, Bethesda, MD	Not specified	Not reported
	Submarine Medical Research Laboratory, Auditory Division, CT	1	14'x19'x8' high (walls slanted)
DEPARTMENT OF ENERGY	Lawrence Berkeley Laboratory, CA	2	19'x40'x16', 39'x47'x75'
DEPARTMENT OF HEALTH, EDUCATION AND WELFARE, PUBLIC HEALTH SERVICE			
Center for Disease Control, National Institute for Occupational Safety and Health	Appalachian Laboratory for Occupational Safety and Health/Testing and Certification, Safety Division, W.VA	1	Not specified
DEPARTMENT OF THE INTERIOR			
Mining Enforcement and Safety	Technical Support – Coal Equipment, PA	1	Not reported
Mining Safety and Health Administration	Noise Branch, PA	1	20'x20'x17' (steel)
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION	Goddard Space Flight Center, MD	2	(11'x17'x13', and 43'x34'x27')
	Jet Propulsion Laboratory, CA	1	7x7x10 meters
	Langley Research Center, VA	1	20'x30'x10'
	Marshall Space Flight Center, AL	1	15'x18'x10'

I. SCALE MODEL TEST FACILITIES — Facilities available for introduction of control variables to simulate real life conditions (e.g., wind tunnels)

AGENCY	LABORATORY/FACILITY	TYPE
DEPARTMENT OF COMMERCE		
National Bureau of Standards		1.5x1.9x2.3m
DEPARTMENT OF DEFENSE		
Air Force	Aerospace Medical Research Laboratory, Biodynamics Branch, OH	Not specified
Navy	David Taylor Naval Ship Research and Development Center, Annapolis, MD	Pumps, Fans, Valves
	David Taylor Naval Ship Research and Development Center, Bethesda, MD	
DEPARTMENT OF HEALTH, EDUCATION AND WELFARE, PUBLIC HEALTH SERVICE		
Center for Disease Control	National Institute for Occupational Safety and Health, Appalachian Laboratory for Occupational Safety and Health/Testing and Certification, Safety Division, W.VA	Not specified
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION	Jet Propulsion Laboratory, CA	Flight Simulation, Core Noise
	Ames Research Center, CA	Wind tunnel (40'x80')
	Goddard Space Flight Center, MD	Progressive wave tube
DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION	Aeronautical Center Research Laboratory, OK	Sonic boom rooms

J. COMPUTERS – (1) Programmed calculators that take the values measured by acoustic instruments and derive the results of these measurements. (2) System controllers making the various elements operate together as a complete versatile system.

AGENCY	LABORATORY/FACILITY	NUMBER	TYPE
DEPARTMENT OF COMMERCE			
National Bureau of Standards			Interdata Minicomputers (5)
DEPARTMENT OF DEFENSE			
Air Force			
	Aerospace Medical Research Laboratory, Bioacoustics Branch	1	HP 9830A
	Aerospace Medical Research Laboratory, Biodynamics Branch	2	CDC 6600, CDC 1700
	Flight Dynamics Laboratory, OH	1	Raytheon H.P., Time Data
	School of Aerospace Medicine, TX	Not specified	Not reported
Army	Aerospace Medical Research Laboratory, AL	1	SEL
	Audiology and Speech Center (Walter Reed Army Medical Center) D.C.	1	PDP11
	Ballistics Research Laboratory, MD	1	CDC 7600
	Construction Engineering Research Laboratory, IL	1	NOVA 1200
	Electronics Command, Avionics Laboratory, NJ	2	Varian 620F, MLAC PDS-4
	Human Engineering Laboratory, MD	1	HP 9865
	Materials Systems Analysis, MD	1	CDC 7600
	Standards Laboratory, AL	1	Interdata 111
	Tank-Automotive Command, MI	1	NOVA, WANG 600
Navy	David Taylor Naval Ship Research and Development Center, Annapolis, MD	Not specified	Not reported
	David Taylor Naval Ship Research and Development Center, Bethesda, MD	Not specified	Not reported
	Aerospace Medical Research Laboratory, Acoustical Sciences Division, FL	1	HP 2100B, PDP 8/L
	Aircraft Environmental Support Office, CA	1	WANG 2200T
	Air Propulsion Test Center, NJ		TI 980
	Air Test Center, MD	-	Varian
	Ocean Systems Center, Acoustics, Behavior and Communications Group, CA	1	Univac 1108
	Ocean Systems Center, Speech Systems and Interference Branch, CA	1	Univac 1110
	Pacific Missile Test Center, CA	1	PDP-11
	Research and Development Center, CA	2	PDP-12, TEKTRONIX 4051
	Research Laboratory, Acoustics Division, D.C.	1	PDP-11/40
	Submarine Medical Research Laboratory, Auditory Division, CT	1	PDP-11
	Surface Weapons Center, Dahlgren Laboratory, VA	2	HP 9830, CDC 6700

I. COMPUTERS -- Continued

AGENCY	LABORATORY/FACILITY	NUMBER	TYPE
Navy (Continued)			
	Weapons Support Center, ASW and Aircraft Equipment Division, IN	1	HP 2100
	Weapons Center, CA	Not specified	
DEPARTMENT OF ENERGY	Lawrence Berkeley Laboratory, CA	Not specified	Not reported
DEPARTMENT OF HEALTH, EDUCATION AND WELFARE, PUBLIC HEALTH SERVICE			
Center for Disease Control	National Institute for Occupational Safety and Health, Appalachian Laboratory for Occupational Safety and Health/Testing and Certification, Safety Division, W. VA	Not specified	Not reported
DEPARTMENT OF THE INTERIOR			
Bureau of Mines	Pittsburgh Mining and Safety Research Center, PA	Not specified	Not reported
Mining Enforcement and Safety	Technical Support -- Coal Equipment, PA	Not specified	Not reported
Mining Safety and Health Administration	Noise Branch, PA	2	Wang 2200-C, PDP 8E
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION			
	Ames Research Center, CA	1	HP 2108
	Jet Propulsion Laboratory, CA	1	Univac 1103
	Langley Research Center, VA	Not specified	Not reported
	Marshall Space Flight Center, AL	Not specified	Not reported

SECTION 4
GEOGRAPHICAL INDEX

This section reflects the geographical locations of the Federal laboratories and research facilities with reported noise capabilities. Since many agencies are now organized in conformance with the standard Federal regions, this organization was followed for this directory.

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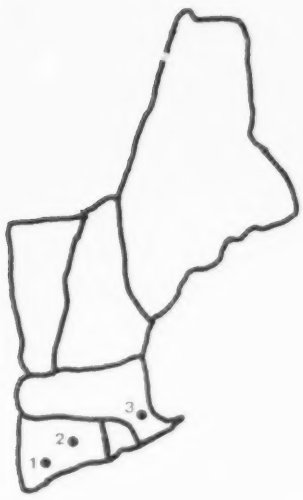
Geographical Index

STANDARD FEDERAL REGION I



1. Naval Submarine Medical Research Laboratory, Groton, Connecticut
2. Naval Underwater Systems Center, New London, Connecticut
3. DOT, Transportation Systems Center, Cambridge, Massachusetts

Geographical Index

STANDARD FEDERAL REGION II

4. Federal Aviation Administration, National Aviation Facilities Experimental Center, Atlantic City, New Jersey

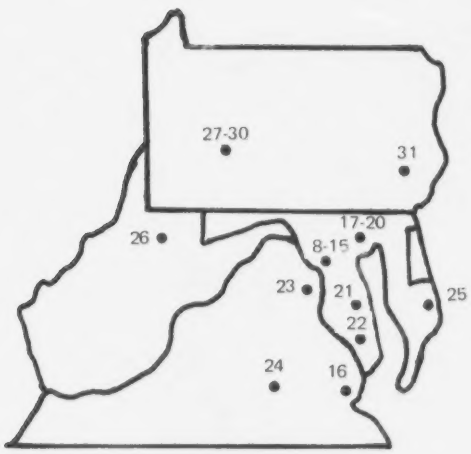
5. Naval Air Engineering Center, Lakehurst, New Jersey

6. Naval Air Propulsion Test Center, Lakehurst, New Jersey

7. Army Electronics Command, Avionics Laboratory, Fort Monmouth, New Jersey

Geographical Index

STANDARD FEDERAL REGION III



8. National Bureau of Standards, Acoustical Engineering Division, Washington, D.C.

9. Army Audiology and Speech Center, Walter Reed Army Medical Center, Washington, D.C.

10. Naval Research Laboratory, Acoustics Division, Washington, D.C.

11. David Taylor Naval Ship Research and Development Center, Bethesda, Maryland

12. National Institutes of Health, Bethesda, Maryland

13. Naval Surface Weapons Center, Silver Spring, Maryland

14. NASA, Goddard Space Flight Center, Greenbelt, Maryland

STANDARD FEDERAL REGION III - Continued

15. Naval Ship Engineering Center, Arlington, Virginia

16. NASA, Langley Research Center, Langley, Virginia

17. Army Ballistics Research Laboratory, Aberdeen Proving Ground, Aberdeen, Maryland

18. Army Environmental Hygiene Agency, Bioacoustics Division, Aberdeen Proving Ground, Aberdeen, Maryland

19. Army Human Engineering Laboratory, Aberdeen Proving Ground, Aberdeen, Maryland

20. Army Material Systems Analysis, Aberdeen Proving Ground, Aberdeen, Maryland

21. David Taylor Naval Ship Research and Development Center, Annapolis, Maryland

22. Naval Air Test Center, Patuxent River, Maryland

23. Army Mobility Equipment Research and Development Center, Fort Belvoir, Virginia

24. Naval Surface Weapons Center, Dahlgren Laboratory, Dahlgren, Virginia

25. NASA, Wallops Flight Center, Wallops Island, Virginia

26. NIOSH, Appalachian Laboratory for Occupational Safety and Health, Testing and Certification Safety Division, Morgantown, West Virginia

27. Bureau of Mines, Noise Research Laboratory, Pittsburgh, Pennsylvania

28. Bureau of Mines, Pittsburgh Mining and Safety Research Center, Pittsburgh, Pennsylvania

29. Bureau of Mines, Mining Enforcement and Safety, Technical Support - Coal Equipment Group, Pittsburgh, Pennsylvania

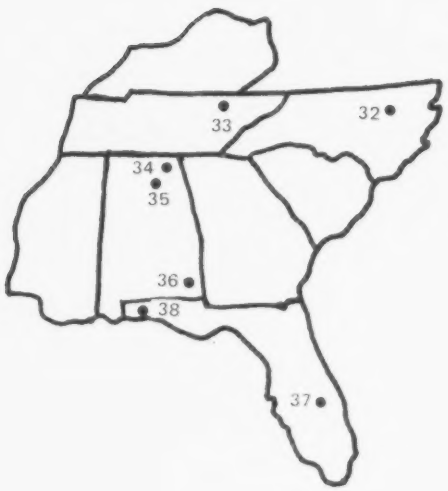
30. Bureau of Mines, Mining Safety and Health Administration, Noise Branch, Pittsburgh, Pennsylvania

31. Naval Air Development Center, Warminster, Pennsylvania

- Aero Electronic Technology Department
- Air Vehicle Technology Department
- Crew Systems Department

Geographical Index

STANDARD FEDERAL REGION IV



32. HEW, National Institute of Environmental Health Services, Laboratory of Environmental Physics, Research Triangle Park, North Carolina

33. DOE, Oak Ridge National Laboratory, Oak Ridge, Tennessee

34. Army Standards Laboratory, Army Missile Command, Redstone Arsenal, Alabama

35. NASA, Marshall Space Flight Center, Huntsville, Alabama

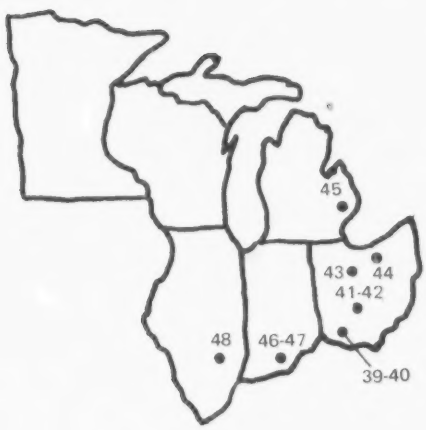
36. Army Aero Medical Research Laboratory, Bioacoustics Division, Fort Rucker, Alabama

37. Naval Research Laboratory, Underwater Sound Reference Division, Orlando, Florida

38. Naval Aerospace Medical Research Laboratory, Acoustical Sciences Division, Pensacola, Florida

Geographical Index

STANDARD FEDERAL REGION V



39. Navy Environmental Health Center, Cincinnati, Ohio

40. HEW, National Institute of Occupational Safety and Health, Cincinnati, Ohio

41. Air Force Aerospace Medical Research Laboratory, Wright-Patterson Air Force Base, Fairborn, Ohio

    - Biodynamic Branch
    - Bioacoustics Branch

42. Air Force Flight Dynamics Laboratory, Wright-Patterson Air Force Base, Fairborn, Ohio

43. U.S. Environmental Protection Agency, Noise Enforcement Facility, Sandusky, Ohio

STANDARD FEDERAL REGION V - Continued

44. NASA, Lewis Research Center, Cleveland, Ohio

45. Army Tank-Automotive Command, Warren, Michigan

46. Naval Weapons Support Center, Crane, Indiana

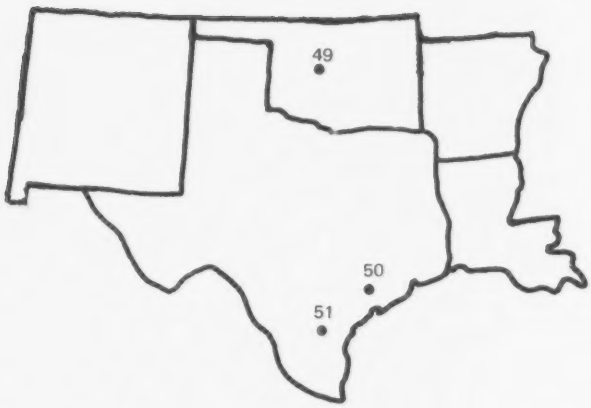
- Aircraft Equipment Division
- ASW and Aircraft Equipment Division
- Fleet Logistics Support Department

47. Naval Weapons Support Center, Medical Department, Crane, Indiana

48. Army Construction Engineering Research Laboratory, Champaign, Illinois

Geographical Index

STANDARD FEDERAL REGION VI



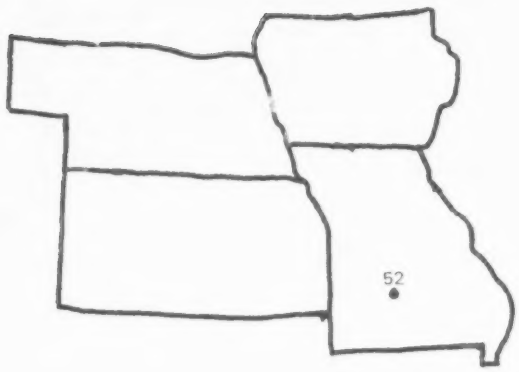
49. Federal Aviation Administration, Aeronautical Center Research Laboratory, Oklahoma City, Oklahoma

50. NASA, Johnson Space Center, Houston, Texas

51. Air Force School of Aerospace Medicine, Brooks Air Force Base, Texas

Geographical Index

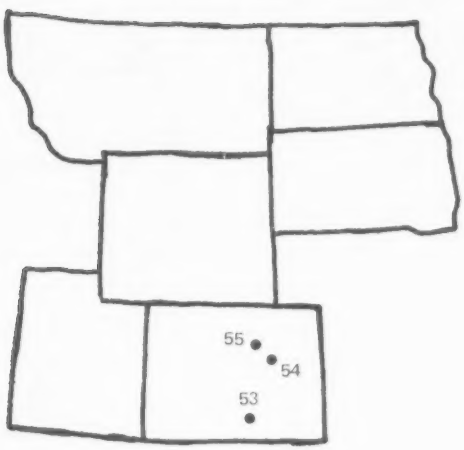
STANDARD FEDERAL REGION VII



52. Bureau of Mines, Rolla Metallurgy Research Center, Rolla, Missouri

Geographical Index

STANDARD FEDERAL REGION VIII



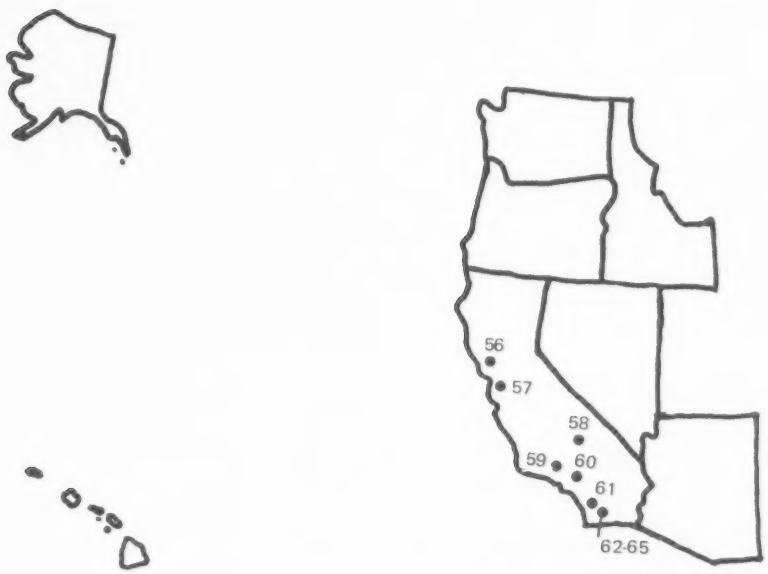
53. Federal Railroad Administration, Transportation Test Center, Pueblo, Colorado

54. Bureau of Mines, Mining Enforcement and Safety, Technical Support - Non-Coal Equipment Group, Denver, Colorado

55. DOC/NOAA, Wave Propagation Laboratory, Boulder, Colorado

Geographical Index

STANDARD FEDERAL REGIONS IX AND X



56. DOE, Lawrence Berkeley Laboratory, Berkeley, California

57. NASA, Ames Research Center, Moffett Field, California

58. Naval Weapons Center, China Lake, California

59. NASA, Jet Propulsion Laboratory, Pasadena, California

60. DOA, Forest Service, Equipment Development Center, San Dimas, California

61. Naval Pacific Missile Test Center, Point Mugu, California

62. Naval Aircraft Environmental Support Office, San Diego, California

63. Naval Health Research Center, San Diego, California

64. Naval Ocean Systems Center, San Diego, California

- Behavior, Acoustics and Communications Group
- Speech Systems and Interface Branch

65. Navy Research and Development Center, San Diego, California

APPENDIX A

DEFINITIONS OF TERMS

DEFINITIONS

Administrative Controls	any procedure which limits daily noise exposure by adjustment of the work schedule or by relocation of personnel
Analog Tape Recorder	instrument which continuously records the physical sound input
Anechoic Chamber	a room whose boundaries have been specially designed with acoustically absorbent material to absorb nearly all the sound incident on its boundaries, thereby affording a test room essentially free from reflected sound
Audiogram	a graph of hearing threshold level as a function of frequency that is obtained from an audiometric examination
Audiometric Booth	specially designed room which allows background noise to be kept at an absolute minimum so that valid audiometric (hearing measurement) tests can be made
Community Noise Monitors	a survey which records the temporal sound pressure in dBA and provides statistical analysis of sound levels presenting the result in histograms
Computer	(1) a programmed calculator that takes the values measured by acoustic instruments and derives the results of these measurements; (2) a system controller making the various elements operate together as a complete versatile system
Decibel	a unit of measurement of sound level, equal to twenty times the logarithm to the base 10 of the ratio of the pressure of the sound measured to the reference pressure, which is 20 micropascals
(decibels A-weighted)	a unit of measurement of sound level weighted so as to correlate well with human response to noise, as defined in ANSI S1.4-1971

Dosimeter	a device that measures accumulated noise exposure. Many can be worn by a worker throughout the workday to determine his or her total noise exposure for that time
Engineering Control	any design procedure that reduces the sound level either at the source of the noise or in the hearing zone of the workers
Hearing Protective Device	a device which, when worn by an individual, reduces the sound entering the ear
Microphone	an electroacoustic transducer that responds to sound waves and delivers essentially equivalent electric waves
Microphone Calibration	an instrument capable of emitting one or more precise tones that are used to calibrate instrument systems employing microphones (e.g., sound level meters).
Non-Auditory Effects of Noise	the study of the perception of sounds
Reverberation Room	an enclosure used for making acoustical measurements in which all surfaces of the room are all as sound reflective as possible
Scale Model Test Facilities	facilities available for introduction of control variables to simulate real-life conditions
Semireverberant Room	an enclosure used for making acoustical measurements in which some surfaces have known sound reflective properties
Signal Processing Equipment	equipment which manipulates acoustic signatures for analytic purposes (e.g., optic band analyzers)
Sound Level Meter	an instrument, consisting of a microphone, an amplifier, an output meter, and frequency-weighted networks, that is used for the measurement of noise and sound levels in a specified manner

Unique Noise Computer Program	a program for a noise instrumentation system may include such widely varying functions as control of measuring instruments, calculations of various predictors of human reactions, comparisons with stored criteria calculations of statistical measures of the measured results and a printout of the summary

APPENDIX B

QUESTIONNAIRE USED IN DEVELOPING THIS DIRECTORY

TELEPHONE QUESTIONAIRE
ACOUSTIC CAPABILITIES

Agency:

Organization Name:

Organization Address:

Mission within Organization:

General Information Phone Number:

Cognizant Individual:

	YES	NO
I. Do you have a noise program? (i.e., similar efforts performed each year as opposed to separately funded individual tasks)	___	___

BRIEF DESCRIPTION:

Support of:

Goals:

Funding:

II. Summary of Present Noise Efforts:	Individual Project	Part of Program
A. Environmental Noise		
1. Air Transportation		
Aircraft Noise Propagation	___	___
Aircraft Noise Monitoring	___	___
Aircraft Noise Measurement	___	___
Noise Measurement Techniques	___	___
Aircraft Noise Modeling	___	___
Sonic Boom	___	___
2. Surface Transportation		
Auto Noise	___	___
Truck Noise	___	___
Railroad Noise	___	___
Measurement Techniques	___	___
Noise Modeling	___	___

	Individual Project	Part of Program
3. Machinery Noise		
Measurement Techniques		
Bearing Noise	—	—
Fan Noise	—	—
Gear Noise	—	—
Vibration	—	—
Impulse Noise	—	—
	—	—
4. Construction Noise		
Measurement Techniques		
Community Impact	—	—
Noise Regulations	—	—
	—	—
B. Occupational Noise		
1. Engineering Control of Sources		
Materials		
Mufflers	—	—
Enclosures	—	—
	—	—
2. Administrative Control of Noise		
Dosimetry		
Time Studies	—	—
	—	—
3. Hearing Protective Devices		
Ear Protectors		
Helmet Design	—	—
	—	—
4. Audiometry		
Hearing Loss		
Equipment Design	—	—
	—	—
C. Health Effects Research		
1. Non Auditory Effects of Noise		
Annoyance		
Trauma	—	—
Speech Interference	—	—
Effects on Performance	—	—
	—	—
2. Hearing Loss		
Measurement Techniques		
Medical Effects	—	—
	—	—

	Individual Project	Part of Program
D. Miscellaneous		
1. Underwater Noise	___	___
2. Acoustic Data Processing	___	___
3. Special Instrumentation	___	___
4. Animal Response to Sound	___	___

III. Staffing (engaged in acoustical efforts)

Key Individuals	Title	Group within Organization	Phone Number

IV. Could you summarize your past acoustic efforts?

Effort	Time Frame

V. Summary of Acoustic Equipments (estimates of equipments available for your efforts):

Equipment	Approximate Number
SLM	___
Analog Tape Recorders	___

Equipment	Approximate Number
Microphones:	____
Lab Quality	____
General Purpose	____
Low Frequency	____
High Frequency	____
High Amplitude	____
All Weather	____
Community Noise Monitors	____
Dosimeters	____
Signal Processing	____

VI. Summary of Acoustic Facilities (estimates of dimension or type)

Facility	Dimensions/Type
Audiometric Booth	_____
Anechoic Chamber	_____
Semireverberant Room	_____
Reverberation Room	_____
Scale Model Test Facilities	_____
Microphone Calibration	_____
Computers	_____
Unique Noise Computer Programs	_____

APPENDIX C

USER RESPONSE FORM

USER RESPONSE FORM

The Office of Noise Abatement and Control (ONAC) has published the Directory of Federal Laboratories and Research Facilities with Noise Capabilities as an aid to individuals working in noise research and control. To assist ONAC in other similar efforts, kindly complete and return the form below.

Name _____ Title _____

Agency _____ Facility _____

Address _____

Type of Activity You Are Involved in _____

_____

_____

Responding on behalf of above agency _____

Responding on behalf of an individual _____

1. Approximately how often is this directory used at your facility? _____

2. Has this directory provided new information not available to you elsewhere? _____

3. Which section of the Directory has been most helpful to you? _____

4. Which section of the Directory do you use the least? _____

5. In the space below, please note significant changes which have occurred in your facility that are not included in the Directory.

_____

_____

_____

_____

_____

_____

Cut here, fold, and staple